



MUSIC HISTORY II. CA. 650 TO 1370 CE

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When in 31/651 Yazdgerd III, the last Sasanian king, left Iran fleeing from the Arab troops, he took with him “1,000 cooks and 1,000 musicians” (Ṭa‘ālebi, *Ġorar*, p. 742; Ḥamza Eşfahāni, *Ta’rik seni* I, p. 63). This statement, along with other historical accounts, testifies to the great importance given to music at the Sasanian court. ‘Amr b. Baḥr Jāḥeẓ (d. 255/868) even used the fact that music was considered an art among the Persians and the Greeks as an argument in favor of music in Islam (Jāḥeẓ, *Ketāb al-qiān*, tr., Beeston, pars. 28-31). Under Arab-Islamic rule local musical traditions lived on in Iran, though on a provincial level. Abu Yusof Kendi (d. after 256/870) saw a difference between the languages and the musical styles of Persians, Turks, the people of Deylam, Ḳazar “and others” (Kendi, *Mo‘allafāt*, p. 137; Idem, *Resāla fi’l-loḥun*, p. 26). From pre-Islamic times on the Arabs had introduced Iranian elements into their own music. They adopted the ‘Persian lute’ (*‘ud fāresi*) and made it the principal instrument of their urban and court music. After the predominance of the harp in pre-Islamic Iran and the lyre in the Greco-Byzantine culture, the lute came to personify a new period of music history in the Islamic world and beyond. Its Arabic name *‘ud*, whose etymology is not yet convincingly explained, may well have been derived from the Persian word *rud*, since other



terms belonging to the instrument like *zir* (highest string), *bam* (lowest string) and *dastān* (fret) were also adopted from the Persian language, and the names of the second and third strings, *maṭnā* and *maṭlaṭ*, may well have been translated from the Persian terms *dotār* and *setār*.

The new art music of the Arab-Islamic world had emerged from older local traditions, including Persian ones, and we know of a number of musicians of Iranian origin who acted first in the early musical centers of Mecca and Medina, and later in Baghdad under the ‘Abbasids as singers, composers, and writers on music, such as Naṣīṭ (2nd half of the 1st/7th cent.), Yunus Kāteb (1st half of the 2nd/8th cent.), Dārā Fāresi (Ebn Ḳordāḍbeh, *Moḳtār*, p. 54), Salmak Rāzi, who served under Hārūn al-Rašid (r. 809-13) and is said to have introduced the musical meter *ramal* into Persian music (Abu’l-Faraj Eṣbahāni, *Aḡāni*, I, p. 379) or Ebrāhim Mawṣeli (d. 188/804) and his son Eṣhāq Mawṣeli (d. 235/850), who dominated the court music from the time of al-Mahdi (r. 775-85) down to al-Motawakkel (r. 847-61). The main activity of the Mawṣelis, however, was not directed towards Persian music but towards the heritage of the great masters of Mecca and Medina. Eṣhāq defended an unadulterate performance of the traditional Arab music against his colleague and rival prince Ebrāhim b. Mahdi (d. 224/839), who followed a less rigid, “romanticist” style. Singing girls from Khorasan performing at the courts in Damascus and Baghdad may have sung and danced in Persian as well as in Arab fashion.

According to Arab authors, who are our principal source for Persian music in the early Islamic period, musicians such as Ebn Mesjaḥ (d. ca. 90/710) and his pupil Ebn Moḥrez traveled to Iran and Syria to learn Persian and Byzantine music respectively (*Aḡāni*³ I, p. 378, III, p. 276). Though being of Persian descent and living in the mixed Arabo-Persian society of Iraq, the young Ebrāhim Mawṣeli traveled to the cultural center of Ray to study Persian as well as Arab music (*Aḡāni*³ V, pp. 157-58). This is not astonishing when we consider that an Arab composer such as ‘Abd-Allāh b. Mo‘āwia Bāheli, who had accompanied his tribesman Qotayba b. Moslem to Khorasan, lived himself in Ray (Ebn Ḳordāḍbeh, *Moḳtār*, p. 24). Arab and Persian music existed side by side and were handed down separately. Abu Naṣr ‘Abd-al-Raḥim Qoṣayri (d. after 542/1147), a son of ‘Abd-al-Karim b. Hawāzen Quṣayri (d. 465/1072), the author of the famous Sufi *Resāla*, compiled in Nišāpur a *Ketāb al-aḡāni* containing Arabic song texts (‘Emād-al-Din Eṣfahāni, *Ḳarīdat al-qasr...* II, p. 104).

The local Persian traditions were supported when, in the 3rd/9th century,



Iranian dynasties regained power and music became once again “one of the signs of rule” (*yak-i az amārāt-e pādešāhi*, see Naršaḳi, *Tāriḳ-e Bokārā*, 1892, p. 258). The poet Rudaki, a boon companion of the Samanid Naṣr II (r. 301-31/914-43), composed songs to his own verses and accompanied himself on the lute or the harp (Naršaḳi, 1892, p. 251; Neẓāmi ‘Aruzi, pp. 49-54). The same is reported of his poet colleague **Farroḳi Sistāni** (d. 429/1038). He served at the court of Sultan Maḥmud Ġaznavi (r. 388-421/998-1030) along with a singer called ‘Andalib and a *tanbur* player called Buḳi. Maḥmud’s son and successor, Sultan Mas‘ud (r. 421-32/1031-40), was entertained by the lute player Moḥammad Barbaṭi and the songstress Setti Zarrin-kamar, also called Setti Zarrin Moṭreba (Mašḥun, I, p. 163).

Several Saljuk rulers were fond of music. A famous lute player from Khorasan, called Kamāl-e Zamān (Perfection of the age), performed at the court of Sultan Sanjar (r. 511-52/1118-57) in Marv (Juzjāni, *Ṭabaqāt I*, 1949, p. 308). ‘Alā’-al-Din Kayqobād (r. 616-34/1219-37), the Saljuq ruler of Anatolia, presented the Ayyubid ruler in Damascus, Malek Ašraf Musā (r. 626-35/1228-37), who came to visit him, a very capable and beautiful female harp player (Duda, p. 148). The female poet and musician Ferdows Moṭreba from Samarqand was favored by the K̄vārazmšāh ‘Alā’-al-Din Moḥammad (r. 596-617/1200-20; Jovayni, II, p. 56). When, in 617/1220, Bukhara and Samarqand were captured by Čengiz Khan, Ferdows was taken over by the Mongol ruler, who is said to have saved the artists of the towns he seized (Abu’l-Ġāzi Bahādor Khan, II, 119).

During the rule of the Il-khans the main musical activities shifted west, and the rulers became accustomed to Irano-Arab urban art and court music. After capturing Baghdad in 656/1258, the Il-khan Hülegü (Hulāgu) Khan (r. 654-63/1256-65) saved the life of the eminent musician and writer on music Šafi-al-Din Ormavi (d. 693/1294), who had served al-Mosta‘šem (r. 640-56/1242-58), the last ‘Abbasid caliph (Neubauer, “Šafi-al-Din,” p. 806). Šams-al-Din Jovayni (d. 683/1284), Hülegü’s *šāheḥ-e divān*, made his own house a center of musical activities. He not only supported Ormavi, who dedicated to him his second book, *al-Resāla al-šarafīya*, but also three of his pupils, Ḥasan Nā’i, ‘Ali Setā’i, and K̄vāja Zaytun, as well as other musicians such as Abu Bakr Tawrizi and Yaḥyā Ġarib Wāseṭi (b. in 661/1263; Neubauer, 1969, pp. 251-60). With the exception of Ġāzān Khan (r. 694-703/1295-1304), most of the Il-khanid rulers were fond of music. Abu Sa‘id Bahādor Khan (r. 716-36/1316-35) even took lessons from his favored musician Kamāl Tawrizi; he also played the lute and composed songs. Another musician at his court, who still served under



Musā Khan (r. 737/1336-7), was Neẓām-al-Din b. Ḥakim (d. ca. 760/1360), a pupil of Şafī-al-Din Ormavi in the second generation (Neubauer, 1969, pp. 257-8). Several of Ormavi's students had emigrated to places like Mardin, Ḥamāt, Damascus, and Cairo.

Musical instruments. While pointing to the sound of instruments as an indicator of differences in musical taste, Abu Yusof Kendi mentions that “the Iranians are not moved by the organ as the Indians or the Greeks are not moved by the pandore from Khorasan” (*ṭonbur korāsāni*, see Kendi, *Mo'allafāt*, p. 72). Long necked lutes (*ṭanābir*) were in favor “with the people from Ray, Ṭabarestān, and Deylam. The Persians prefer the *ṭonbur* to most other instruments” (Ebn Kordāqbeh, *Moqtār*, p. 16; Mas'udi, ed. Pellat, V, p. 128). The Arabs, who spelled the Persian word *tanbur* as *ṭonbur*, were ravished by the sound of its two strings whose seven frets were said to match the number of days and planets (Kendi, *Mo'allafāt*, p. 74). Abu Naşr Fārābi (d. 339/950) described the different tunings of the instrument (see [FĀRĀBI v. MUSIC](#)). The poet Rā'ī (early 2nd/8th cent.) called it “harsh-sounding,” while in a verse by the Arab poet Ḍu'l-Romma (d. 117/735) the instrument “raises its voice in intoxication, its melody containing what is foreign to the dialects of the Arabs” (Mofazzal b. Salama, *Ketāb al-malāhi*, tr., p. 15). The “agility” (*keffa*) and “velocity” (*sor'a*) of *ṭonbur* players (Kendi, *Mo'allafāt*, p. 137) formed their notion of Persian music more than anything else. Biographical and artistic data of male and female *ṭonbur* virtuosi were collected in particular books (e.g., *Ketāb al-ṭonburiyin* by Jaḥẓa and Ebn Ṭarḳān's *Akbār al-moğannin wa'l-ṭonburiyin*; Ebn al-Nadim, ed. Tajaddod, pp. 163, 173, tr. Dodge, pp. 319, 342). Quotations from some of these titles have survived in Abu'l-Faraj Eşfahāni's (d. 356/967) *Ketāb al-ağāni*, and names of pandore players were listed by the 5th/11th-century Egyptian court musician Ebn al-Ṭaḥḥān (*Hāwi al-fonun*, p. 119).

The upper chested angular **harp** (*čang*) was one of the instruments favored in Sasanian Iran and later. It formed, together with the lute (*ūd*), the main body of urban and courtly chamber music (Ebn Kordāqbeh, *Moqtār*, p. 15). Both instruments are well documented in literary and iconographic sources. The couple was completed by the instrument called *nāy(-e siāh)*, which in those days was not the rim-blown flute (*nāy-e safīd*) but a chalumeau (*mezmār*) played with a reed (Ebn Zayla, *Kāfi*, p. 78; Kāšāni, *Kanz al-toḥaf*, p. 114). A Persian *ūd* player and a *nāy* player are depicted in a fresco in Qaşr al-Ḥayr al-Ġarbi in Syria, which dates back to ca. 90/710 (Farmer, *Islam: Musikgeschichte*,



p. 35). Other pairs of instruments used in Iran in early Islam were the reed instrument *zonāmi* and the *tanbur*, *sornāy* and *ṭabl*, mouth organ and *čang* (Ebn Kordādbeh, *Moktār*, p. 15). The rim-blown variety of the *nāy* was used in folk music. It was emancipated in Sufi circles and entered art music not much earlier than in the 8th/14th century. In the early Islamic period, the *barbaṭ* was not identical with the *ūd*. It had a longer neck and a smaller body. It was compared with the Roman balance (*qarastun*, see Mofazzal b. Salama, *Ketāb al-malāhi*, tr., p. 6-7), and may be depicted in Qoşayr ‘Amra (see Farmer, *Islam: Musikgeschichte*, p. 32). Only later, when the instrument had fallen into oblivion, did the name *barbaṭ* come to refer to the short necked lute (e.g., Ebn Sinā, *Šefā’*, p. 144). The best *barbaṭ* players were said to come from Marv (Jāhez, *al-Tabaşşor* p. 37).

Among the instruments of chamber music mentioned or described in later sources we find those with “open strings” like *qānun* (its tuning is first given in Ormavi, *Adwār*, ms. Fatih 3662, fols. 22r-23r), *santur* (first mentioned by Manučehri), the rectangular psaltery *nozha* “invented” by Ormavi and described by Ḥasan Kāšāni (*Kanz al-toḥaf*, pp 116-17), the lute type *robāb*, a “lute psaltery” called *moḡni* (pp. 113-14, 118-19), which was a predecessor of the Indian *sārangī*, and the four-octave hybrid *šāhrud* (invented near Samarqand in the early 4th/10th century, and described by Abu Naşr Fārābi), the bowed instruments *kamānča* (first? mentioned in a verse by the poet Sanā’i, d. 525/1131) and *ḡeşak* (Kāšāni, *Kanz al-toḥaf*, pp. 112-13), the rim-blown flutes *şabbāba* (‘Alişāh Boḡāri, *Aşjār wa-aṭmār*, unpubl. transcription by Amir Ḥosayn Pourjāvadi, p. 3) and *bişa* (Kāšāni, *Kanz al-toḥaf*, pp. 114-55), and the *daf* that “takes care of the meter and rhythm of all the other instruments” (‘Alişāh Boḡāri, *Aşjār wa-aṭmār*, transcription by Pourjāvadi, p. 3). Descriptions of these and more instruments were later given by ‘Abd-al-Qāder b. Ġaybi Marāḡi (d. 838/1435). Pathbreaking studies on the development of musical instruments in Iran were published by Henry George Farmer in *The Encyclopaedia of Islam* and elsewhere (in particular Idem, *Islam: Musikgeschichte*; idem, *Studies in Oriental Music*; see also Mallāḡ, *Farhang*, ssv.).

Music theory. The educated musicians who had access to Arabic books could deepen their knowledge of music theory by reading the treatises of a great number of authors active from the 2nd/8th century onward. Traditional Arabic theory was distinguished from that inspired by Greek music theory. The Greek and Byzantine traditions were present in the work of Abu Yusof



Kendi (d. after 256/870), Abu Naşr Fārābi (d. 339/950), Abu ‘Abd-Allāh K̄vārazmi (wrote ca. 375/985), the Ekwān al-Şafā’ (4th/10th cent.), Ebn Sinā (d. 428/1037), Şafi-al-Din Ormavi (d. 693/1294), and others. An abridged Persian translation of the *Rasā’el-e Ekwān al-Şafā’* was made in the early 7th/13th century under the title *Mojmal al-ḥekma*. Its chapter on music found a wide circulation. Both titles by Şafi-al-Din Ormavi, *Ketāb al-adwār* and *al-Resāla al-şarafiya*, were several times translated into Persian and commented on in both languages.

As in other fields, the Arabian element was predominant even when the books were written in Persian like the *Dāneş-nāma-ye ‘alā’i*, composed in 428/1037 by Ebn Sinā in Isfahan, or Faqr-al-Din Rāzi’s (d. 606/1209) *Ḥadā’eq al-anwār fi ḥaqā’eq al-asrār*, which was composed at the command of the K̄vārazmšāh ‘Alā’-al-Din Tekeş and completed in 575/1179. A certain exception to the rule can be seen in the *Qābus-nāma* (written in Persian, 475/1082) of ‘Onşor-al-Ma‘ālī Kaykāvus b. Eskandar and in Ebn Zayla’s Arabic *Ketāb al-kāfi*, in which the Iranian element is recognizably represented. Some Persian versions of the *‘Ajā’eb al-maḥluqāt wa-ġarā’eb al-mawjudāt* by Zakariyā’ b. Moḥammad Qazvini (d. 682/1283) contain additional sections on music. An important Persian text on the subject was written by Qoṭb-al-Din Maḥmud b. Mas‘ud Şirāzi (d. 710/1311), who was a pupil of Naşir-al-Din Ṭusi and knew Şafi-al-Din Ormavi, in his encyclopedia *Dorrat al-tāj le-ġorrat al-Dobāj*, composed on behalf of the prince of Gilān, Dobāj b. Filşāh.

Less original is the chapter on music in the Persian encyclopedia *Nafā’es al-fonun fi ‘arā’es al-‘oyun*, written in about 740/1340 by Moḥammad b. Maḥmud Āmoli for the Inju ruler Abu Eşhāq b. Maḥmudşāh (d. 758/1357) in Shiraz. Another book on music was written under the title *Laṭā’ef al-asrār le-maqāşed al-adwār* for Jalāl-al-Din Turānşāh, a vizier of Abu Eşhāq. The author may have been Yaḥyā b. Aḥmad Kāşi, who translated Ormavi’s books into Persian and dedicated them to Abu Eşhāq. The *Laṭā’ef al-asrār*, which is closely related to Ormavi’s work, has survived in only one copy (see Ra’nā Ḥosayni, pp. 748-56). In about 750/1350, a certain Ḥasan Kāşāni wrote an impressive book on the theory and practice of music entitled *Kanz al-toḥaf*. He was the first in Iran to deal in greater detail with musical instruments. Additional treatises and anonymous titles are mentioned in the catalogues by Aḥmad Monzavi (1970), Moḥammad-Taqi Dāneşpażuh (1976) and Moḥammad-Taqi Massoudieh (1996).

The tonal system. Music theory proper may be divided into three disciplines: the tonal, modal, and metrical systems. As to the first mentioned, later Persian



sources have preserved traces of an archaic tonal system. From our limited information we can conclude that it comprised eighteen pitches or *bāngs* (lit. voices, sounds, tones), divided into whole-tones (*bāng*) and half-tones (*nīm-bāng*). It seems to have been a method of music instruction inherited from pre-Islamic times, and it remained unaffected by Arab influence. [Abu Aḥmad b. Monajjem](#) (d. 300/913) confirms that eighteen was also the number of notes of the two-octave system of the “ancients.” As a consequence, the microtones used in urban and court music since the 3rd/9th century were neglected. Still, in the 7th/13th century and later the method served to define the melodic modes by a standardized number of *bāngs*. In doing so, the number eighteen stood for the total number of *bāngs* of the twelve main modes. The system was related to the two-stringed *tanbur* that was used in Persian music theory comparably to the use of the four-stringed lute (*‘ūd*) in the Arab world, and it was based on the scale of the mode *rāst*. The method recalls that of Eshāq Mawṣeli (d. 235/850) in Baghdad, who defined the modes according to the first two or three notes of their course (*majrā*) on the second string (*maṭnā*) of the lute. He also disregarded the microtones, but in contrast to the *bāng* system he gave the notes precise positions on the finger board. The term *bāng* lived on in Persian theoretical writings until the 11th/17th century. In some later texts the *bāng* figure was further specified by indicating the more precise fret (*parda*) position.

In contrast to the *bāng* method used in musical practice, the pitches were exactly measured on the fingerboard of the lute and recorded by scholars such as Abu Naṣr Fārābi, Ebn Sinā, Ṣafi-al-Din Ormavi, and Qoṭb-al-Din Širāzi in their respective books. As a result of physical and mathematical endeavors the tetrachord was divided into eleven steps by Fārābi, and seven steps by Ebn Sinā and Ormavi. Qoṭb-al-Din adopted the figures of Fārābi and Ormavi and added some data of common (*‘orfī*) intervals from the practice of the time. The final division of the octave into seventeen steps was recorded by Ormavi. It is a Pythagorean scale, and it became the accepted norm of later Persian music theory (Manik, *Das arabische Tonsystem*, pp. 63 ff.).

The modal system. The notion of *bāng* was closely related to the local modal systems, the oldest of which was inherited from Sasanian times. It was a set of seven modes, whose names are listed in Arabic sources but are distorted by copyists and only few of them can tentatively be identified, such as *bahār*, *nayruzi* (*nowruzi*), and *mehrajāni* (Farmer, “The Old Persian Musical Modes”). [Ebn Kordādbeh](#) (d. 300/913), who speaks of eight traditional Persian modes but



gives only seven names, describes some of their characteristic features in detail (*Moḳtār*, p. 15).

The notion of seven modes survived in Iran even after the character and names of the modes, now called *parda*, had changed. Four of the new names were first mentioned by Ebn Sinā in the chapter on music of his *Ketāb al-šefā'*, including the main mode *rāst* in its Arabic form *mostaqim*. Nine additional names (*māda*, *'erāq*, *'oššāq*, *zirāfgand*, *busalik*, *sepāhān* (= *ešfahān*), *navā*, *goḏāšta* and *rāhavi*) are listed by Kaykāvus b. Eskandar (*Qābus-nāma*, p. 237). Additional names are found in poems by Manučehri Dāmḡāni (d. ca. 432/1041), and Anwari Abivardi (d. 565/1170), and in Neẓāmi Ganjavi's *Ḳosrow wa Širin*, written ca. 581/1180. An enlarged system of two times seven modes is listed in the music chapter of *Ašjār wa-aṭmār* by 'Ališāh Boḳāri (Storey, 1972, pp. 61-62), an astrological work written in 686/1287. Here the seven fundamental (*aṣl*) modes and their seven branches (*far'*) are both related to the seven planets. The author also lists a fundamental (*aṣl*) group of *āvāz* modes along with their higher (*tiz*) counterparts, and he mentions that *tarkib* modes are composed of the *āvāz* modes. He describes this system as if it were the leading one in his day while, at the same time, he highly praises the name of Šafi-al-Din Ormavi, who represented a quite different tradition.

In stages of development unknown to us, the older system of seven modes developed into a system of twelve main modes (*parda*), six secondary modes (*āvāz*), and additional *šo'be* or *tarkib* modes in sexagesimal order. It was also connected with astronomy. Several sources confirm that the previous system of seven modes, which had been a “planetary” one, changed into the more sophisticated “zodiacal” system of twelve modes (Anon., *al-Moḳtaṣar al-mofid*, p. 56). By the early 7th/13th century at the latest the new system had been completely developed. It was described by the North African writer Aḡmad b. Yusof Tifāši (d. 651/1253) as a recent Persian system adopted by the Arabs and containing twelve *bardas* (i.e., *parda*) and six *āvāz* modes whose names are mostly Persian (see Ṭanji, “al-Ṭarā'eḡ,” pp. 96-97) but only partly identical with those known from Ormavi and his school.

Sets of twelve *parda* and six *šo'be* modes appear in the 7th/13th century in slightly different versions. There was an eastern or Khorasanian tradition transmitted by Moḡammad b. Maḡmud b. Moḡammad Neysāburi, the master of Khorasan (*ostād-e Ḳorāsān*, prior to 656/1258), who added the numbers of *bāng* to the main modes. There was another system of twelve modes called *adwār* (sing. *dawr*) or *šodud* (sing. *šadd*) plus six *āvāz* modes in a western or



Irano-Arab version recorded by Şafi-al-Din Ormavi in the 13th century and, to judge from its terminology, intended to represent the predominant Persian and Arab local traditions, namely, *’oşşāq, navā, busalik, rāst, ’erāq, eşfahān, zirāfgand, bozorg, rāhavi, zangula, ḥosayni, ḥejāzi*. In contrast, the beginning of Neysāburi’s series of *pardas* and *bāngs* (*rāst, moḳālef-e rāst, māda, ’erāq*) resembles more closely that given by Kaykāvus b. Eskandar in his *Qābus-nāma*. Neysāburi emphasizes the importance of the mode *rāst* as being the “*śāh* of all the *pardas*” (ed. Purjawādi, p. 63). In other sources *rāst* is compared with a tree of which the other modes are the branches, or a town in which the other modes are the streets (Anon., *al-Moḳtaşar al-mofid*, p. 56).

Comparison of different tables of modes from the 7th/13th and 8th/14th centuries reveals a relative similarity of the twelve main modes and a greater difference between the *āvāz* and *šo’be* modes which, however, was a frequent phenomenon in Persian and Arabic sources (cf. ms. Istanbul, Köprülü 1613, fol. 70b; Ebn Fażl-Allāh ’Omari, *Masālek al-absār* X, p. 3, l. 10). Most unusual are the *āvāz* modes listed in the anonymous *al-Moḳtaşar al-mofid* (ca. 755/1354). Their number is eight instead of six and includes some old-fashioned terms.

One generation after Ormavi an important account of the modal system was given by the versatile scientist Qoṭb-al-Din Şirāzi (d. 711/1311) in the music chapter of his *Dorrat al-tāj*. In contrast to the other authors, he did not follow a strict system. He only once names the twelve *parda* modes as *’oşşāq, navā, busalik, rāst, nowruz, ’erāq, eşfahān, bozorg, zirāfgand, rāhavi, zangula, ḥosayni* (*Dorrat al-tāj*, p. 124), and he mentions nine *šo’be* modes “used by the musicians” (*dogāh, segāh, jahārgāh, banjgāh, zāvoli, ruy-e ’erāq, mobarqa’, māya, šahnāz*), the traditional system being of minor importance for his own distinction between and classification of the modes. He is the first to use the word *maqām* as a general term in the sense of mode (*Dorrat al-tāj*, pp. 122, 124), and he is the first to describe the melodic development (*sayr*) of modes, singling out characteristic notes such as the beginning (*ebtedā’, mabda’*), a central pitch (*wasaf*), and the ending (*entehā’, maḥaṭṭ*, see Wright, *The Modal System*, pp. 143-292). At the end of the chapter on music, he has written down a song by Ormavi in the most sophisticated musical notation known from Islamic lands (see below).

Among his sources Qoṭb-al-Din quotes the *Ketāb al-adwār* by a certain Salmak (*Dorrat al-tāj*, p. 121). This was one of the books of the 6th/12th and 7th/13th centuries that have not survived but could have helped to detect the unknown predecessors and colleagues of Ormavi. Another book of this kind was written



by a certain Šaraf-al-Din b. ‘Alā’, a distinguished contemporary of Ormavi in music theory, who is quoted in the anonymous *Ketāb al-mizān fi ‘elm al-adwār wa-’l-awzān*, written by a pupil of Ormavi.

Extra-musical phenomena. A specific aspect of the Persian modal system was its association to a number of extra-musical phenomena such as the stars, the seasons, or the hours of day and night. The musician was reminded to choose a song or a mode in correspondence with the nature and condition of his listeners, their age, complexion, status, and origin. The effect of music was treated in books by Abu Yusof Kendi, by his pupil Abu Zayd Balkī (d. 322/934), by Ebn Hendu Nišāburi (d. ca. 420/1029), who was a student of Abu Zayd in the second generation, and by later writers. In the Persian language, this topic was first taken up in the *Qābus-nāma* (“the greatest art of the musician is to meet the nature of the listener”; *Qābus-nāma*, p. 237), and continued to be regarded as an essential aspect of musical practice down to the end of the Safavids. In the 7th/13th century at the latest, a pseudo-scientific relation between the twelve zodiacal signs, the twelve main modes, the twelve parts of the body, and the hours of day and night was made into a system of musical dietetics and music therapy that existed until the 8th/16th century (see Neubauer, “Arabische Anleitungen”).

Musical meters. A characteristic feature of both Arab and Persian musical practice in early Islam was the way (*ṭariqa* in Arabic, *rāh* in Persian) of a melody or a song. It was defined by a musical meter to which the melodic mode was subordinated. The musical meters (*iqā’*, *oṣul al-iqā’*) were described, on the Arab side, as being either heavy (*ṭaqil*) or light (*ḵafif*) versions of the three basic forms (*oṣul*) called *ramal*, *al-ṭaqil al-awwal* and *al-ṭaqil al-tāni*, and a separate group of light meters called *hazaj*. Fārābi brought these three layers into a system of basic beats in the relation of 1 : 2 : 4 or (in modern terms) eighth note, quarter note and half note. *Ramal* was the first of the heavy meters. It was described (in modern terms) as a sequence of two half notes and a half-note rest. The two remaining heavy meters consisted of three and four half notes respectively with again a half-note rest at the end. The three light meters had the same structure as their heavy counterparts, but double speed. The *hazaj* was described as a sequence of five quavers and a quaver rest. The final rest could be filled up by notes, and the notes of the basic patterns could be subdivided. Fārābi’s system was abstracted, with slight differences, from the patterns of the musicians as written down by Eshāq Mawṣeli and others. According to Ebn Zayla (d. 440/1048), who was a pupil of



Ebn Sinā, these were “all the meters used by musicians in Arabic, Persian, and Khorasanian [songs]” (*Kāfi*, p. 62).

Abu Yusof Kendi had already described the Persian meters as “well-defined ways (*toroq ma'luma*), similar to the [Arab] *oşuls*” (*şabiha be'l-oşul*; Kendi, *Mo'allafāt*, p. 137; Idem, *Resāla fi 'l-loḥun*, p. 26). On their part, Persian writers saw their meters in a similar manner. In the *Qābus-nāma* (p. 232-33), Onşor-al-Ma'āli Kaykāvus first distinguishes between the two basic levels of heavy (*gerān*) and light (*sabok*), then proceeds to a threefold division. The first layer contains the “heavy” meters of the *dastān-e kosravāni* that is performed in the presence of kings, people of serious nature (*koḍāvandān-e jedd*), and for old people. The second layer contains the “light meters” that correspond to light prosodic meters in songs (*sorud*) performed for younger people. The third layer is designated for the “delicate temper” (*ṭab'-e laṭif*) of women and children and contains the songs called *tarāna* whose meter (*wazn*) is lighter (*laṭiftar*) than those of others. Compared with Fārābi's metrical system, the first layer can be assigned to the “heavy” meters, the second to the “light” versions of the “heavy” meters, and the third to the meter *hazaj*. In later Persian sources this threefold metrical system was reduced to cryptic formulations such as: “There are three kinds of beat (*zarb*), one beat (*yak zarb*) for old people, two beats (*do zarb*) for young people, and three beats (*seh zarb*) for women and children” (ms. Tehran, Majles-e Sanā 13682; ms. Istanbul, Köprülü 1613).

The metric system underwent a significant change between the 5th/11th and the 7th/13th centuries, which was comparable to the development of the melodic modes. At the end of this constitutive period, the meters had increased in length following the general principle of augmentation that governed the development of musical meters in Iran and, later, in Ottoman Turkey. Most of the meters of the 7th/13th century retained the older names while their form had considerably changed. In his *Ketāb al-adwār*, Şafi-al-Din Ormavi distinguishes between four different lengths of notes: letter *alef* or syllable *ta* is called *sari'* and represents the time unit of *hazaj* (=1), letter *bā'* or syllable *tan* is called *sabab* or *kaḫif* (= 2), letter *jim* or syllables *tanān* are called *wated* or *kaḫif al-ṭaqil* (= 3), letter *dāl* or syllables *tanānan* are called *fāşela* or *ṭaqil* (= 4). He also uses the mnemotechnic patterns of the root *fa'ala* known from prosody. Accordingly, the basic form of *al-ṭaqil al-awwal*, described in *Ketāb al-adwār* as *tanān* (= 3), *tanān* (= 3), *tanānan* (= 4), *tan* (= 2), *tanānan* (= 4), is later recorded in *al-Resāla al-şarafiya* as *mafā'elon* (3 + 3), *fa'elon* (4),



mofta'elon (2 + 4). One period of *al-ṭaqil al-awwal* (3 + 3 + 4 + 2 + 4 = 16) equals two periods of *al-ṭaqil al-tāni* (3 + 3 + 2 = 8) and four periods of *kaḥfiḥ al-ṭaqil* (2 + 1 + 1, or 1 + 1 + 2 = 4). A Persian meter was called *fāketi*. Ormavi gave it the pattern 4 + 2 + 4 + 4 + 2 + 4 = 20, Qoṭb-al-Din listed the form 2 + 4 + 4 + 2 + 4 + 4 = 20 and, under the name of *fāketi-e zāyed*, an extended form 2 + 4 + 4 + 4 + 2 + 4 + 4 + 4 = 28. Ormavi mentions that “very many melodies of the Iranians” were composed in the meter *możā'af al-ramal* (= *ṭaqil al-ramal*) in the version of *al-Resāla al-šarafīya* (= 4 + 2 + 4 + 2 + 4 + 2 + 4 + 2 = 24). Qoṭb-al-Din modifies this statement by saying that the meter had been favored by the Iranians in older days (*dar qadīm*) and that the version recorded in *Ketāb al-adwār* (= 4 + 4 + 2 + 2 + 2 + 2 + 2 + 2 + 4 = 24) was more common than that of *al-Resāla al-šarafīya* (Ormavi, *al-Resāla al-šarafīya*, p. 208; Qoṭb-a-Din, *Dorrat al-tāj*, p. 137).

Eight meters are solely listed by Qoṭb-al-Din and referred to as being well-known in his time. Among them is *moḳammas* (2 + 2 + 4 = 8), *ḏarb-e rāst* or *ḏarb-e aṣl* (2 + 2 + 2 + 2 + 4 = 12), and *čahārḏarb* (8 + 4 + 4 + 4 + 4 = 24). In *Šarḥ-e adwār* (pp. 266 f.) Ebn Ġaybi Marāḡi (d. 838/1435) adds that *čahārḏarb* was “invented” by a certain Moḥammadšāh Rabābi. Qoṭb-al-Din (p. 138) also gives a description of the meter *torki* “in theory” (3 + 3 + 4 + 4 + 3 + 3 = 20) and “in practice” (2 + 2 + 2 1/3 + 2 1/3 + 2 + 2 = 12 [2/3]). This is the earliest known reference to a limping (*aksak*) meter in music theory. It was not repeated by Qoṭb-al-Din’s successors Ebn Ġaybi Marāḡi and his son, who content themselves with the common theoretical description of *torki* and its variants (12, 20, and 24 beats), nor by later Ottoman writers.

The above meters were still current, with some variants and additional forms, in the theoretical writings of the Timurid period. Ebn Korr (d. 763/1362), who had left Baghdad for Cairo, uses the same terms while most of his patterns are different. In his book a variant of *ṭaqil al-ramal* (6 + 6 + 6 + 6 = 24) is called *koṛāsāni*, and he lists a meter called *ḏarbkoṣravāni* with eighteen time units (*Ġāyat al-maṭlub*, fols. 8r-9v, 19r-v).

Musical forms. The development of musical forms in the early Islamic period was closely related to that of the modes and meters. Some of them were inherited from Sasanian times and survived in a more or less altered form, others developed under the new cultural conditions. Here also the mutual stimulation between the Arab and the Persian ‘Erāq was the origin and the center of the Irano-Arab symbiosis. The fundamental couple of an instrumental introduction in free meter and the following metrical song was expressed by Keykāvus by the terms *rāh* and *navā*. As mentioned above, the



sequence of *dastān*, *sorud*, and *tarāna* represented the gradation of heavy, medium, and light meters in the respective types of song. The musical performance of epic texts (*dastān*) in which the syllabic structure of the verse determined the metric structure of the melody was taken up later by professional reciters of the *Šāh-nāma* (*Šāh-nāmakvān*) and practitioners of similar professions.

Bukhara was known for a musical style of its own, including amazing songs (*sorudhā-ye 'ajib*) about the mythical Kayanid prince Siāvoš, and traditional dirges transformed into songs of art music (Naršaki, *Tāriḳ-e Boḳārā*, pp. 23-24, tr. p. 23). Ebn Zayla distinguished between a Khorasanian style of *dastān* singing and another one from Ešfahān and lists some (distorted) names of *ravāšīn* and *dastānāt*. A verse of a *dastān* and of a *ṭariqa* could be followed by a special formula called *naḡma* (*Kāfi*, pp. 66-67).

Sorud was a more general term, comparable to the Arabic *ṣawt*. The early *tarāna* was a light song. Later it became a part of the *nawba* (see below). The name of another musical form, *ḡazal*, was borrowed from the poetical form bearing the same name. The musical *ḡazal* was equated in the *Qābus-nāma* (p. 235) with a 'song without meter' (*tarāna bi-wazn*). Later it was also included in the *nawba*.

A style of its own "unrivaled in the seven climates" with songs for all occasions "that pleased Iranians and Arabs" was attributed to Ešfahān by the 5th/11th-century Mofazzāl b. Sa'id Māfarruḳi (*Maḥāsen Ešfahān*, p. 71). Quatrains from Transoxania (*do-baytiḥā-ye mā warā' al-nahri*) were regarded as martial songs by 'Onṣor-al-Ma'ālī Kaykāvus (p. 236). Virtuositic instrumental pieces, called *ravāšīn*, "which the human voice cannot imitate," were considered characteristic of the local style of Khorasan by Abu Naṣr Fārābi (*al-Musiḳi al-kabir*, pp. 69, 77; tr. d'Erlanger, I, pp. 17, 21). Ebn Zayla knew of both instrumental and vocal *ravāšīn*: The latter were mainly melismatic and not subjected to a strict musical meter (*Kāfi*, p. 66). Lullabies in Persian (*lalā'i*) and in Turkish (*nenni*, *ninni*) are alluded to in a satirical poem by Suzani Samarqandi (d. 569/1174; *Divān*, p. 454). The musical form *ḳosravāni* was transformed into a melodic mode in 5th/11th century Egypt and in Muslim Spain, where it led to a scordatura of the lowest string of the lute (*ṭanji*). The Egyptian musician Ebn al-Ṭaḥḥān (d. after 449/1057) corrected this concept by



explaining the original meaning of the term as he understood it: “Some [musicians] perform the *kosravāni* in [the meter] *ramal* and [the melodic mode] *mo’allaq* with certain strings being lowered... But this is not *kosravāni*. The real *kosravāni* is a Persian way (*ṭariqa*) with many periods (*adwār*) and beats (*naqarāt*) that branch out from one species (*naw*) to another. Its [correct] metrical form can only be [mastered] on the Persian lutes (*‘idān ‘ajamiya*) with their slim necks (*daqiqat al-a’nāq*) on which the thumb performs an unusual and admirable movement” (*amal*, lit. work (Ebn Ṭaḥḥān, *Ḥāwi al-fonun*, facs. ed. p. 204). A few patterns of *ṭariqa* and *ṣawt* melodies were set down by Ormavi in a traditional notation by writing the pitch of the notes in letters and their length in numbers. His successor Qoṭb-al-Din Širāzi followed him by writing down a *qawl* composition by Ormavi in a much more elaborated, score-like way that he called “fixing of melodies” (*tabt-e alḥān*; see *Dorrat al-tāj*, pp. 148-49).

Kaykāvus’s text about the metric system of Persian music describes the traditional “sequence of performing music” (*nawbati-e moṭrebi*) for an audience: It begins with “heavy” songs and ends with “light” songs to satisfy any listener belonging to the three above groups. This was first testified to in early ‘Abbasid court music and later led to the four-part musical form called *nawba* or *nawba-ye morattab* (composite suite). Comparable with the development of the metric and modal systems between ca. 400/1000 and 600/1200, the *nawba-ye morattab* was also a result of the Irano-Arab symbiosis and was fully developed in the 7th/13th century at the latest. The texts and musical indications of some *nawba* compositions by Ṣafi-al-Din Ormavi and his contemporaries and students are recorded in the 10th volume of the *Masālek al-abṣār* by Ebn Faḏl-Allāh ‘Omari (d. 749/1349), which is devoted to music and musicians (facs. ed., X, pp. 309 ff.). In its standard form the *nawba* consisted of four parts performed in the same melodic mode and meter, first a *qawl*, sung using Arabic verses, then a *ḡazal*, using Persian verses, followed by a *tarāna* in the meter *robā’i* and by a final *forudāšt* that returned to the form of the initial *qawl*. The different parts of the *nawba*, which were also performed and transmitted independently, were analysed in detail by Owen Wright (1992), based on later Irano-Turkish song text collections. Descriptions of the *nawba* in theoretical writings were collected and interpreted by Angelika Jung (*Quellen*, pp. 141 ff.).

Dance. Among the different kinds of dance (*raqs*) mentioned in the sources



(Fārābi, *al-musiḳi al-kabir* I, pp. 78 ff; Ḥasan b. Aḥmad Kāteb, *Kamāl adab*, p. 232; Ebn Zayla, *Kāfi*, p. 71), the name *dastband* that alludes to a Persian dance is mentioned by Abu'l Faraj Eṣfahāni (*Ketāb al-aḡāni* XXII, p. 214), in the *Rasā'el-e Ekḡwān al-Ṣafā'* (I, p. 234), and by Ebn Zayla (*Kāfi*, p. 73). Aḥmad b. Moḥammad Maydāni (d. 531/1137) who, in his Persian-Arabic dictionary, lists also *čup-bāzi* among the names of dances and games, explains the word *dastband* as “a kind of dance in which one holds the other by the hand,” and he gives the word *fanzaj* (cf. the Spanish fandango) as its Arabic equivalent (*al-Sāmi fi'l-asāmi*, p. 173). Mostly female dancers are depicted in the iconographic testimonies that have survived since Sasanian times, and dance is mentioned as an essential part of courtly and urban entertainment in many instances. It was cultivated at the 'Abbasid court in Baghdad and certainly also at the local courts in Iran. Khorasan was well known for its dances (Mas'udi, *Moruj*, ed. Barbier de Meynard and Pavet de Courteille, VIII, p. 100, ed. Pellat, V, p. 132; Maydāni, pp. 173-74). When Bukhara was taken by Čengiz Khan he “sent for the female singers of the town to sing and to dance for him, whilst the Mongols raised their voices to the melodies of their own songs” (Neubauer, “Musik zur Mongolenzeit,” p. 244).

Samā'. The dance of Sufi orders played an important part in the local dancing culture as did their inclination for singing and instrumental music (*samā'*) in general. The art of pirouette (*čarḳidan*), which is cultivated in the traditional Persian gymnasiums (*zur-kāna*) up to the present, may well have been part of the dance repertoire of Khorasan at the beginning of the 7th/13th century when Jalāl-al-Din Moḥammad Rumi (d. 672/1273), who later founded the order of the Mawlawiya or “whirling dervishes” in Konya, grew up in Balkh. From the 3th/9th century on a particular genre of literature written in favor of or against musical activities accompanied the music history in Iran as in the other Muslim countries. A positive landmark was the translation, made in 620/1223, of the moderate music chapter of *Eḡyā' olum al-din* by Abu Ḥāmed Moḥammad Ġazāli (d. 505/1111) into Persian (see Massoudieh, nos. 32, 33), followed by the likewise moderate *'Awāref al-ma'āref* by Šehāb-al-Din Sohravardi (b. 539/1145, d. 632/1234?; see Massoudieh, no. 105) and its abbreviated Persian translation *Meṣbāḥ al-hedāya* by 'Ezz-al-Din Maḥmud Kāšāni (d. 735/1335; Massoudieh, no. 62).

Military and ceremonial bands. From the 4th/10th century onwards, court military and ceremonial bands (*nawbat*, *mehtar*) became one of the insignia of



local rulers in Iran as in other parts of the Islamic world. They played at the daily prayer times, at other official occasions, and during warfare (Farmer, *Ṭabl Khāna*). The bands are depicted on miniatures, their employment was recorded by historians, and some of their instruments were later described by Ebn Ġaybi Marāġi. The importance of the ruler's band was stressed by splendid craftsmanship. So the kettledrums in the *nawbat* of the powerful K̄vārazmšāh 'Alā'-al-Din Moḥammad (r. 596-617/1200-20) were adorned with silver and gold (Dawlatšāh, *Taḍkera*, p. 147).

BIBLIOGRAPHY

Bibliographical surveys.

Iraj Afšār, *Fehrest-e maqālāt-e fārsī*, 5 vols., Tehran, 1949-95, I, 220-32; II, 184-98; III, 102-5; IV, pp. 170-74; V, pp. 224-28.

Moḥammad-Taqī Dānešpažūh, “Šad o si o and aṭar-e fārsī dar mūsīqī,” *Honar o mardom*, new series, nos. 94-100, 1970-71, pp. 23-34, 45-56, 68-77, 35-44, 40-44, 24-27, respectively; also in *MJ* (= *Majalla-ye musiqi*), 3rd series, no. 135, 1972 ff.; see also the addenda by Karāmat Ra'nā Ḥosayni, “Takmila-i bar ‘Šad o si aṭar-e musiqi dar fārsi’,” *Honar o mardom*, new series no. 110, 1971, pp. 50-51.

Idem, “Mūsīqī-nāmahā,” *Honar o mardom*, new series, nos. 144 to 162, 1974-76 (15 parts). Idem, *Modāwamat dar oṣūl-e musiqi-e Irān: nemuna-i az fehrest-e āṭār-e dānešmandān-e irāni wa-eslāmi dar ġenā' wa-musiqi*, Tehran, 1974.

Idem, “Davāzdah matn-e musiqi,” *Āyanda* 16, 1990, pp. 184-88.



Mehrdad Fallahzadeh, *Persian Writing on Music: A Study of Persian Musical Literature from 1000 to 1500 AD*, Uppsala, 2005.

Henry George Farmer, "Tenth Century Arabic Books on Music: As Contained in 'Kitāb al-Fihrist' of Abu'l-Faraj Muḥammad ibn al-Nadīm," *The Annual of Leeds University Oriental Society* 2, 1959-61, pp. 37-47.

Idem, *The Sources of Arabian Music*, Leiden, 1965; Persian adaptation by Ḥosayn-'Ali Mallāḥ as "Şāḥebān-e resālāt-e musiqi," *MJ*, 3rd series, nos. 116-29, 1968-71, pp. 8-18, 24-34, 69-79, 61-71, 48-55, 51-55, 66-74, 42-50, 40-45, 51-61, respectively.

Ā. Gāzerāni, "Negāh-i ba neveštahā-ye Henri Jorj Fārmer," *Māhur* 5, 1999, pp. 113-25. Simin Ḥalāli, *Katāb-šenāsi-e musiqi dar Īrān*, Tehran, 2007.

Mohammad Taghi Massoudieh, *Manuscrits persans concernant la musique*, International inventory of musical sources B 12, Munich, 1996.

Aḥmad Monzawi, *Fehrest-e noskähā-ye kaṭṭi-e fārsi*, 5 vols. in 7, Tehran, 1969-74, V, pp. 3,885-929.

Eckhard Neubauer, "Arabic Writings on Music," in Virginia Danielson, Scott Lloyd Marcus, and Dwight Reynolds, eds., *The Garland Encyclopedia of World Music, VI: The Middle East*, New York and London, 2002, pp. 363-86 (includes printed texts on *samā'* and music in Iran). Eckhard Neubauer and Elsbeth Neubauer, "Henry George Farmer on Oriental Music: An Annotated," *Zeitschrift für Geschichte der arabisch-islamischen Wissenschaften* 4, 1987-88, pp. 219-66.

Arthur Upham Pope et al., eds., *A Survey of Persian Art from Prehistoric Times to the Present*, 3rd ed., Tehran, 1977, XVI, cols. 617-40. Ḥ. M. Şeddiq, "Resālāt-e musiqi," *Honar-e musiqi*, no. 41, 2002, pp. 48-51.

Amnon Shiloah, *The Theory of Music in Arabic Writings (c. 900-1900): Descriptive Catalogue of Manuscripts in Libraries of Europe and the U.S.A.*,



International inventory of musical sources B 10, Munich, 1979 (includes general titles on music in Islam and in Iran).

Idem, *The Theory of Music in Arabic Writings (c. 900-1900): Descriptive Catalogue of Manuscripts in Libraries of Egypt, Israel, Morocco, Russia, Tunisia, Uzbekistan, and Supplement to B X.*, International inventory of musical sources B 10 A, Munich, 2003.

Charles A. Storey, *Persian Literature: A Bio-Bibliographical Survey* II/1, London, 1972, pp. 61-62 and passim; II/3, London, 1977, pp. 350-52, 411-22.

Āqā Bozorg al-Ṭehrāni, *al-Ḍari'a elā taṣānif al-šī'a*, ed. Aḥmad Monzawi, 24 vols., Najaf and Tehran, 1936-78, XXIII, pp. 257-263.

Comprehensive works.

Taqi Bīneš, *Tāriḳ-e moḳtaṣar-e musiqi-e Irān*, Tehran, 1995.

Idem, *Šenāḳt-e musiqi-e Irān*, Tehran, 1997. Jean During, *Musique et extase: l'audition mystique dans la tradition soufie*, Paris, 1988.

Moḥammad-'Alī Emām Šūštari, *Irān gāhvāra-ye dāneš wa honar: honar-e musiqi-e ruzgār-e eslāmi*, Tehran, 1969.

Henry George Farmer, "An Outline History of Music and Musical Theory," in Arthur Upham Pope and Phyllis Ackermann, eds., *A Survey of Persian Art from Prehistoric Times to the Present* VI, London and New York, 1939, pp. 2783-804.

Idem, "Persische Musik," in Friedrich Blume, ed., *Die Musik in Geschichte und Gegenwart: allgemeine Enzyklopädie der Musik*, 17 vols., Kassel etc., 1949-86, X, cols. 1093-102.

Idem, "Music," in M. Mohammad Sharif, ed., *A History of Muslim Philosophy*, 2 vols., Wiesbaden, 1963-66, II, pp. 1124-78; tr. 'Alī-Moḥammad Ḥaqqšenās as



“Musiqi dar Irān wa sarzaminhā-ye eslāmi,” in *Tāriq-e falsafa dar Eslām*, Tehran, 1988, III, pp. 191-268; repr. in *Māhūr* 1, 1998, pp. 9-43, 2, 1999, pp. 9-46, 3, 1999, pp. 9-34.

Idem, *Islam: Musikgeschichte in Bildern* 3/2, Leipzig, 1966.

Idem, *Studies in Oriental Music: Reprint of Writings Published in the Years 1925-1969*, 2 vols., Frankfurt, 1986, 2nd ed., 1997.

Idem, *A History of Arabian Music to the XIIIth Century*, London, 1929, repr., London, 1973; tr. Behzād Bāšī as *Tāriq-e musiqi-e kāvar-zamin*, Tehran, 1987.

Idem, “Music,” in *The Legacy of Islam*, Oxford and London, 1931, pp. 356-75; tr. Behzād Bāšī, in *Do goftār dar bāra-ye konyāgarī wa musiqi-e Irān*, Tehran, 1989, pp. 101-39.

Esmā’il Ḥākemi, “Samā’ dar taṣawwof,” *MJ*, 3rd series, nos. 108-20, 1966-68, pp. 11-27, 54-80, 42-59, 1-12 and 47-60, 48-61, 50-66, 25-33, 60-66, 112-18, 92-101, respectively; new version published as *Samā’ dar taṣawwof*, Tehran, 1982.

Faridun Jonaydi, *Zamina-ye šenākt-e musiqi-e irāni*, Tehran, 1982, 2nd ed., Tehran, 1993.

Angelika Jung, *Quellen der traditionellen Kunstmusik der Usbeken und Tadshiken Mittelasiens: Untersuchungen zur Entstehung und Entwicklung des šašmaqām*, Hamburg, 1989.

Ruḥ-Allāh Kāleqi, *Sargodašt-e musiqi-e Irān*, 6th ed., 2 vols., Tehran, 1997; III, ed. ‘Ali-Moḥammad Dašti, Tehran, 1998; 3 vols. in 1, Tehran, 2002.

L. Manik, *Das arabische Tonsystem im Mittelalter*, Leiden, 1969.

Musā Ma’rufi, *Radif-e haft dastgāh-e musiqi-e irāni/Les systèmes de la musique traditionnelle de l’Iran (Radif)*, ed. Mehdi Barkešli, Tehran, 1963, 2nd ed., Tehran,



1973.

Ḥasan Mašḥun, *Tāriḳ-e musiqi-e Irān*, 2 vols., Tehran, 1994.

Ruḥangiz Rāhgāni, *Tāriḳ-e musiqi-e Irān*, Tehran, 1998.

George D. Sawa, *Music Performance Practice in the Early 'Abbāsīd Era 132-320 AH / 750-932 AD*, Toronto, 1989, 2nd ed., Ottawa, 2004.

Fadlou Shehadi, *Philosophies of Music in Medieval Islam*, Leiden and New York, 1995.

Amnon Shiloah, *The Dimension of Music in Islamic and Jewish Culture*, Aldershot, UK, 1993.

Idem, *Music in the World of Islam*, Aldershot, UK, 1995.

Owen Wright, *The Modal System of Arab and Persian Music A.D. 1250-1300*, Oxford, 1978.

Idem, *Words Without Songs: A Musicological Study of an Early Ottoman Anthology and its Precursors*, London, 1992.

Persian texts (in chronological order).

Ebn Sinā (d. 428/1037), *Dāneš-nāma-ye 'alā'ī*, chap. on music, in Taqi Bineš, ed., *Seh resāla-ye fārsi dar musiqi*, Tehran, 1992, pp. 3-29, 130-149; tr. Mohammad Achena and Henri Massé as *Avicenne: le livre de science (Danesh-nameh)*, Paris, 1955, pp. 217-39, 246-47.

'Onsor-al-Ma'ālī Kaykāvus b. Eskandar (comp. in 475/1082), *Qābus-nāma*, ed. Golām-Ḥosayn Yusofi, Tehran, 1973, chap. on music; tr. Reuben Levy as *A Mirror for Princes: The Qābus Nāma*, London, 1951; selections, ed. Golām-



Ḥosayn Yusofi as *Gozida-ye Qābus-nāma*, Tehran, 2nd. ed. 1983, pp. 232-39 (references in the text are to this edition).

Aḥmad Neẓāmi ‘Aruẓi Samarqandi (d. after 551/1156), *Čahār maqāla*, ed. Moḥammad Qazvini, Cairo, 1327/1909; rev. ed. Moḥammad Mo‘in, Tehran, 1952; tr. Isabelle de Gastines, as *Nizami Aruzi: les quatre discours*, Paris, 1968.

Faḡr-al-Din Rāzi (d. 606/1209), *Ḥadā’eq al-anwār fi ḥaqā’eq al-asrār*, music chap., ed. Amir Ḥosayn Purjavādi, *Ma‘āref* 10/2-3, 1993, pp. 88-110.

Neẓāmi Ganjavi (d. in or prior to 613/1217), *Ḳosrow o Širin*, ed. Ḥasan Waḥid Dastgerdi, Tehran, 1952, pp. 190-94, 355 ff.

Moḥammad b. Maḥmud Neysāburi (prior to 656/1258), *Resāla dar musiqi*, ed. Moḥammad-Taqi Dānešpažuh, in Mojtabā Minovi, ed., *Haftād sālagi-e Farroḡ*, Tehran, 1965, pp. 99-103; ed. Amir Ḥosayn Purjavādi, *Ma‘āref* 12/1-2, 1995, pp. 32-70.

Abu ‘Amr Menhāj-al-Din ‘Oṭmān b. Serāj Juzjāni (comp. 658/1260), *Ṭabaqāt-e nāšeri*, ed. ‘Abd-al-Ḥayy Ḥabibi, Lahore, 1954, 2nd ed., Kabul, 1963.

Bābā Afzal Kāšānī (d. prior or in 666/1268), “Faṣl az ‘elm-e musiqi,” in idem, *Mošannafāt-e Afzal-al-Din Kāšāni*, ed. Mojtabā Minovi and Yaḥyā Maḥdawi, 2 vols., Tehran, 1952, 2nd. ed. 1987, II, pp. 653-54.

Zakariyā’ b. Moḥammad Qazvini (d. 682/1283), *‘Ajā’eb al-maḡluqāt wa-ḡarā’eb al-mawjudāt*, Pers. version with chapter on music, manuscripts, London, British Library, Or. 7968, Or. 13935, Add. 16739, and Washington, National Library of Medicine, P2.

‘Ališāh Bokāri (comp. 686/1287), *Ašjār wa aṭmār*, unpublished transcription of the chapter on music (“dar nesbat-e ‘elm-e musiqi”) by Amir-Ḥosayn Purjavādi, Tehran.



Anonymous (7th/13th cent.), *Mojmal al-ḥekma* (Pers. adaptation of the music chapter from the *Rasāʿel Eḳwān al-Ṣafāʾ*), in Taqi Bineš, ed., *Seh resāla-ye fārsi dar musiqi*, Tehran, 1992, pp. 31-54, 150-61.

Qoṭb-al-Din Širāzi (d. 710/1310), *Dorrat al-tājle-ḡorrat al-Dobāj*, ed. M. Meškāt, 5 vols., Tehran, 1939-45, IV, pp. 1-149; partial ed. and tr. Owen Wright, *The Modal System of Arab and Persian Music A.D. 1250-1300*, Oxford, 1978, pp. 168-93, 282-92.

Moḥammad b. Maḥmud Āmoli (comp. ca. 740/1340), *Nafāʿes al-fonun fi ʿarāʿes al-ʿoyun*, ed. Abuʾl-Ḥasan Šaʿrānī, 3 vols., Tehran, 1957, III, pp. 73-109.

Karāmat Raʿnā Ḥosayni, “Laṭāyef al-asrār le-maqāṣed al-adwār,” *Rāhnamā-ye ketāb* 13/11-12, 1971, pp. 748-56.

Ḥasan Kāšāni (comp. ca. 750/1350), *Kanz al-toḥaf*, in Taqi Bineš, ed., *Seh resāla-ye fārsi dar musiqi*, Tehran, 1992, pp. 55-128, 162-97.

Anonymous (comp. ca. 755/1354), *al-Moktaṣar al-mofid fi bayān al-musiqi wa oṣul aḥkāmehi*, ed. Amir Ḥosayn Purjavādi, *Maʿāref* 13/1, 1996, pp. 49-58.

Anonymous (8th/14th cent.?), Untitled treatise on music, Ms. Istanbul, Köprülü 1613 (fols. 70v-73r).

Anonymous (8th/14th cent.?), Untitled treatise on music, Ms. Tehran, Majles-e Senā Library 13682 (fols. 164b-67a), unpublished transcription Amir-Ḥosayn Purjavādi.

ʿAbd-al-Qāder b. Ġaybi Marāḡi (d. 838/1435), *Maqāṣed al-alḥān*, ed. Taqi Bineš, Tehran, 1966.

Idem, *Jāmeʿ al-alḥān*, ed. Taqi Bineš, Tehran, 1987.

Idem, *Šarḥ al-adwār*, ed. Taqi Bineš, Tehran, 1991.



Najib Māyel Heravī, *Andar ġazal-e k̄viš nehān k̄vāham gaštān (samā'-nāmāhā-ye fārsi)*, Tehran, 1993 (texts on *samā'* by 26 authors).

Selected Arabic texts (in chronological order; eds. and trs.).

‘Amr b. Baḥr Jāḥeẓ (d. 255/868-69), *Ketāb al-qiān*, ed. Joshua Finkel, in *Talāt rasā'el le-Abi 'Oṭmān 'Amr ...al-Jāḥeẓ*, Cairo, 1926; ed. ‘Abd-al-Salām Moḥammad Hārūn, in *Rasā'el al-Jāḥeẓ II*, Cairo, 1965; tr., Charles Pellat as “Les esclaves-chanteuses de ·āḥiẓ,” *Arabica* 10, 1963, pp. 121-47; ed. and tr. Alfred F. Landon Beeston as *The Epistle on Singing-Girls of Jāḥiẓ*, Warminster, 1980.

Idem, *Ṭabaqāt al-moġannin*, excerpt made by ‘Obayd-Allāh b. Ḥassān, latest ed. by ‘Abd-al-Salām Moḥammad Hārūn, in *Rasā'el al-Jāḥeẓ*, III, Cairo, 1979.

Idem, *Ketāb mofākārāt al-jawāri wa-'l-ġelmān*, ed. ‘Abd-al-Salām Moḥammad Hārūn, in *Rasā'el al-Jāḥeẓ II*, Cairo, 1965.

Pseudo-Jāḥeẓ, *Ketāb al-tāj fi aklāq al-moluk*, ed. Ahmed Zeki Pacha, Cairo, 1914, repr., 1949; tr., Charles Pellat as *Le livre de la couronne*, Paris, 1954.

Abū Yūsuf Kendi (d. shortly after 256/870), *Mo'allafāt al-Kendī al-musiqiya*, ed. Zakariyā Yusof, Baghdad, 1962.

Idem, *Resālat al-Kendī fi'l-loḥun wa-'l-naġam*, ed. Zakariyā Yusof, Baghdad, 1965.

Idem, *Resālat al-Kendī fi ajzā' kabariya fi'l-musiqi*, ed. Maḥmud A.

Ḥefni, Cairo, n.d.; ed. Zakariyā Yusof, in *Mo'allafāt al-Kendī al-musiqiya*, Baghdad, 1962; tr., Henry George Farmer as “Al-Kindī on the ‘Eúthos’ of Rhythm, Colour, and Perfume,” *Transactions of the Glasgow University Oriental Society* 16, 1955-56 (publ. 1957), pp. 29-38.

Idem, *Resālat al-Kendī fi ḵobr šenā'at al-ta'lif*, ed. Yusof Šawqī, Cairo, 1969; ed.



Zakariyā Yusof, in *Mo'allafāt al-Kendi al-musiqiya*, Baghdad, 1962; ed. and tr., Robert Lachmann and Maḥmud A. Ḥefni as *Ja'qūb Ibn Ishāq al-Kindī: Risāla fī ūbr tā'lif al-alḥān/Über die Komposition der Melodien*, Leipzig, 1931; facs. ed. and tr., Carl Cowl as "The Risāla fī Ūubr Ta'lif al-Alḥān of Ja'qūb ibn Ishāq al-Kindī (790-874)," *The Consort* 23, 1966, pp. 129-66.

Idem, *Moktaşar al-musiqi fi ta'lif al-naḡam wa-šan'at al-'ud allafahu le-Aḥmad b. al-Mo'taşem (Resāla fī 'l-loḡūn wa-'l-naḡam)*, ed. Zakariyā Yūsuf, in *Mo'allafāt al-Kendi al-musiqiya*, Baghdad, 1962; tr. Amnon Shiloah as "Un ancien traité sur le ūd d'Abū Yūsuf al-Kindī," *Israel Oriental Studies* 4, 1974, pp. 179-205.

Ebn Abi'l-Donyā (d. 281/892), *Damm al-malāhi*, ed. and tr. James Robson, in *Tracts on Listening to Music: Being Dhamm al-malāhī by Ibn abī'l-Dunyā and Bawāriq al-ilmā by Majd al-Dīn al-Ṭūsī al-Ghazālī*, London, 1938.

Mofazzal b. Salama (d. after 290/903), *Ketāb al-malāhi wa-asmā'ehā*, facs. ed. and tr. James Robson and Henry G. Farmer as *Ancient Arabian Musical Instruments as Described by Al-Mufaddal ibn Salama (9th Century) in the Unique Istanbul Manuscript of the Kitāb al-malāhī in the Handwriting of Yāqūt al-Musta'şimī (d. 1298)*, Glasgow, 1938; ed. 'Abbās 'Azzāwi, in *al-Musiqā al-'erāqiya fī 'ahd al-Moḡul wa-'l-Torkomān men sana 1258 elā sana 1534*, Baghdad, 1951; ed. Ş. M. Jomayli, *al-Mawred* 4/3, 1984, pp. 35-64; ed. Ğaṭṭās 'Abd-al-Malek Kaşaba, Cairo, 1985.

Ebn Kordāqbeh (d. 300/912), *Moktār men Ketāb al-lahw wa-'l malāhi*, ed. I. 'Abdoh Kalīfa, Beirut, 1961.

Ebn al-Monajjem (d. 300/912), *Ketāb al-naḡam*, several eds. and trs., latest facs. ed. and tr. Eckhard Neubauer, in *Arabische Musiktheorie von den Anfängen bis zum 6./12. Jahrhundert*, Frankfurt, 1998, pp. 43-126.

Abu Naşr Fārābi (d. 339/950), *Ketāb al-musiqi al-kabir*, ed. Ğaṭṭās 'Abd-al-Malek Kaşaba and Mahmud A. Ḥefni, Cairo [1967]; facs. ed. Eckhard Neubauer, Frankfurt, 1998; tr. in Rodolphe d'Erlanger, *La musique arabe* I, Paris, 1930, II, Paris, 1935, pp. 1-101, 247-51; Pers. tr. of the introd. (unfinished), Huşang Morşedzāda as "Ketāb al-musiqi al-kabir," *Muzik-e Irān* 9/11, pp. 4-5, 12, pp.



9-10; 10/1, pp. 17-18, 3, pp. 10-16, 4, pp. 18-26, 6, pp. 14-16; Pers. tr. Ādartaš Āḍarnūš as *Ketāb-e musiqi-e kabir*, Tehran, 1996.

Idem, *Eḥṣā' al-'olūm*, ed. and Eng. tr. of the music section, Henry G. Farmer as *Al-Fārābī's Arabic-Latin Writings on Music*, Glasgow, 1934.

Idem, *Ketāb al-iqā'āt*, facs. ed. and tr. Eckhard Neubauer, in *Arabische Musiktheorie von den Anfängen bis zum 6./12. Jahrhundert*, Frankfurt, 1998, pp. 128-84; Pers. tr., 'A. Gorjī, *Mahoor* 23, 2004, pp. 9-49.

Idem, *Ketāb fi eḥṣā' aṣnāf al-iqā'āt*, facs. ed. and German tr., Eckhard Neubauer, in *Arabische Musiktheorie von den Anfängen bis zum 6./12.*

Jahrhundert, Frankfurt, 1998, pp. 185-308.

Abu'l-Ḥasan 'Alī b. Ḥosayn Mas'ūdi (d. 345/956), *Moruj al-dahab wa ma'āden al-jawhar*, ed. and tr. Charles Barbier de Meynard and Abel Pavet de Courteille as *Maḥūdī, Les prairies d'or (Murūj al-dhahab)*, 9 vols., Paris, 1861-77, VIII, pp. 88-103; rev. ed. by Charles Pellat, text, 7 vols., Beirut, 1966-79, V, pp. 126-32, tr., 3 vols., Paris, 1962-71 (contains two lectures on music history, theory and dance given, the first by Ebn Ḳordāḍbeh at the Baghdad court of al-Mo'tamed) separate ed. 'Abbās 'Azzāwī, in *al-Musiqā al-'erāqiya fi 'ahd al-Moḡul wa-'l-Torkomān men sana 1258 elā sana 1534*, Baghdad, 1951.

Abu'l-Faraj Eṣbahānī (d. 356/967), *Ketāb al-aḡāni al-kabir*, 24 vols., Cairo, 1927-74, partial tr. Armand Pierre Caussin de Perceval as "Notices anecdotiques sur les principaux musiciens arabes des trois premiers siècles de l'Islamisme," *JA*, sér. 7/2, 1873, pp. 397-592; partial Pers. tr. M. H. M. Faridāni, as *Bargozida-ye al-aḡāni*, Tehran, 1990.

Ebn al-Nadīm (d. ca. 385/995), *Ketāb al-fehrest*, ed. Gustav Flügel, 2 vols., Leipzig, 1871-72; ed. Reżā Tajaddod, Tehran, 1971, pp. 157 ff.; tr. Bayard Dodge as *The Fihrist of al-Nadīm: A Tenth-Century Survey of Muslim Culture*, 2 vols., New York and London, 1970, I, pp. 307-42; tr. of the chapter on music literature by Henry G. Farmer as "Tenth Century Arabic Books on Music: As Contained in



‘Kitāb al-Fihrist’ of Abu’l-Faraj Muḥammad ibn al-Nadīm,” *The Annual of Leeds University Oriental Society* 2, 1959-61, pp. 37-47.

Eḳwān al-Şafā’ (2nd half 4th/10th cent.), *Rasā’el Eḳwān al-Şafā’*, ed. Ḳayr-al-Din Zerekli, 4 vols, Cairo, 1928, I, pp. 132-80; ed. in 4 vols., Beirut, 1957, music chapter, vol. I, pp. 183-241; tr., Amnon Shiloah as “L’*épître sur la musique des Ikhwān al-Şafā’*,” *Revue des études islamiques* 32, 1964, pp. 125-62; 34, 1966, pp. 159-93; tr., Amnon Shiloah as *The Epistle on Music of the Ikhwān al-Şafā’*, Tel-Aviv, 1978.

Abu ‘Abd-Allāh Moḥammad Ḳvārazmi (late 4th/10th cent.), *Mafātih al-‘olum*, ed. Gerlof van Vloten, Leiden, 1895, repr. 1968, pp. 235-46; tr. Henry G. Farmer as “The Science of Music in the *Mafātih al-‘Ulūm*,” *Transactions of the Glasgow University Oriental Society* 17, 1957-58 (publ. 1959), pp. 1-9.

Abu ‘Abd-al-Raḥmān Solami (d. 412/1021), *Ketāb al-samā’*, ed. Naşr-Allāh Purjavādi, *Ma‘āref* 5/3, 1988, pp. 22-30, 40-72; tr. of the introd. N. Pourjavady as “Zwei alte Werke über *samā’*,” *Spektrum Iran* 3/2, 1990, pp. 37-59, 3/3, pp. 36-61.

Abu Maşur Eşfahāni (d. 418/1027), *Ketāb adab al-muluk*, “Bāb samā’ al-Şufiyya,” ed. Naşr-Allāh Purjavādi, *Ma‘āref* 5/3, 1988, pp. 30-50, 73-78; see also N. Purjavādi “Zwei alte Werke über *samā’*,” (see above).

Ebn Hendu (d. 420/1029), *Meftāh al-ṭebb wa menhāj al-ṭollāb*, ed. Maḥdi Moḥaqqueq and Moḥammad-Taḳi Dāneşpażuh, Tehran, 1989, chap. 8 (on medicine and music), facs. ed. and tr. Amnon Shiloah as “Ibn Hindū, le médecin et la musique,” *Israel Oriental Studies* 2, 1972, pp. 447-62. Ebn Sīnā (d. 428/1037), [*Ketāb*] *al-Şefā’: al-Riāziyyāt* 3, *Jawāme’ ‘elm al-musiḳi*, ed. Zakariyyā Yusof, Cairo, 1376/1956; ed. and study, Mahfuz Ali El-Tawil, “Ibn Sina and Medieval Music,” Ph. D. diss., University of Exeter, 1992; tr., in Rodolphe d’Erlanger, *La musique arabe* II, Paris, 1935, pp. 103-245, 251-57.

Idem, *Ketāb al-najāt*, ed. and Ger. tr. of the music chapter, Mahmoud el-Hefny as *Ibn Sina’s Musiklehre hauptsächlich an seinem “Nağāt” erläutert*, Berlin, 1931; ed. and study, Mahfuz Ali El-Tawil, “Ibn Sina and Medieval Music,” Ph. D. diss., University of Exeter, 1992.



Ebn Zayla (d. 440/1048), *al-Kāfi fi'l-musiqi*, ed. Zakariyā Yusof, Cairo, 1964.

Ebn al-Ṭahḥān (d. after 449/1057), *Ḥāwi al-fonun wa salwat al-maḥzun*, facs. ed., Fuat Sezgin and Eckhard Neubauer, Frankfurt, 1990.

Abu'l-Qāsem 'Abd-al-Karim Qoṣayri (d. 465/1072), *al-Resāla al-Qoṣayriya*, printed several times; Pers. tr., ed. Badi'al-Zamān Forūzanfar as *Tarjama-ye Resāla-ye Qoṣayriya*, Tehran, 1966.

Idem, *Ketāb al-samā'*, ed. Pir Moḥammad Ḥasan, in *al-Rasā'el al-Qoṣayriya*, Karachi, 1964.

Ḥasan b. Aḥmad b. 'Ali Kāteb (early 5th/11th cent.), *Kamāl adab al-ḡenā'*, ed. Zakariyā Yusof, *al-Mawrid* (Baghdad) 2/2, 1973, pp. 101-54; ed. Ġaṭṭās 'Abd-al-Malek Ḳaṣaba and Maḥmud A. Ḥefni, Cairo, 1975; tr. Amnon Shiloah as *La perfection des connaissances musicales*, Paris, 1972.

Abu'l-Qāsem Ḥosayn Rāḡeb Eṣfahāni (d. in the early 5th/11th cent.), *Moḥāzarāt al-odabā' wa muḥāwarāt al-šo'arā' wa'l-bolaḡā'*, 4 vols., Beirut, 1961, II, pp. 715-723.

Abū Ḥāmed Moḥammad Ġazālī (d. 505/1111), *Eḡyā' 'olum al-dīn*, printed several times; Eng. tr. of the chap. on *samā'*, Duncan B. Macdonald as "Emotional Religion in Islām as Affected by Music and Singing: Being a Translation of a Book of the *Iḡyā' 'Ulūm ad-Dīn* of al-Ghazzālī," *JRAS*, 1901, pp. 195-252, 705-48; 1902, pp. 1-28.

'Omar Ḳayyām (d. 517/1123), *al-Qawl 'alā ajnās allaḡi bi-'l-arba'a*, in Jalāl-al-Din Homā'i, ed., *Ḳayyāmi-nāma: Resāla fi šarḡ mā aškala men moṣādarāt ketāb Oqlides*. Tehran, 1967, pp. 338-44; ed., Pers. tr. and study Ş. Huşyār and M. Bāqerī as "Resāla-ye Ḳayyām az didgāh-e riāziyāt," *Rahpuya-ye honar* 43, 1997, pp. 43-63; Rus. tr., see B. A. Rozenfel'd and N. G. Khayretdinova, "Rech' o rodakh, kotorye obrazuyutsya kvartoï Omar Khayyam," *Istoriko-matematicheskie issledovaniya* 19, 1974, pp. 279-84.



Naşir-al-Din ʿŪsī (d. 672/1274), fragment on intervals and pulse, ed. Zakariyā Yusof as *Resāla fī ʿelm al-musiḳi*, Cairo, 1964.

Aḥmad b. Moḥammad ʿŪsī (7th/13th cent.), *Bawāreq al-elmāʿ fī ʿl-radd ʿalā man yoḥarremoʿl-samāʿ beʿl-ejmāʿ*, ed. and tr. James Robson, in *Tracts on Listening to Music: Being Dhamm al-malāḥibī by Ibn abīʿl-Dunyā and Bawāriq al-ilmāʿ by Majd al-Dīn al-ʿŪsī al-Ghazālī*, London, 1938; Pers. version by the author as *al-Hadīa al-saʿdia fī maʿāni ʿl-wajdia*, and another tr. by ʿAbd-Allāh Šaṭṭār Qāderi as *Bawāreq al-samāʿ*, Tehran, 1994.

ʿAbd-al-Moʿmen Šafī-al-Dīn Ormavī (d. 693/1294), *Ketāb al-adwār*, facs. ed. Ḥosayn ʿAlī Maḥfuz, Baghdad, 1961; ed. Ġaṭṭās ʿAbd-al-Malek Kašaba and Maḥmud A. Ḥefni, Cairo, 1968; ed. Hāšem Moḥammad Rajab, Baghdad, 1980; facs. ed. Eckhard Neubauer, Frankfurt, 1984; tr. with commentary, in Rodolphe d’Erlanger, *La musique arabe*, III, Paris, 1938, pp. 183-566, 573-588; Pers. tr. Mirzā Moḥammad-Esmāʿil b. Moḥammad-Jaʿfar Ešfahāni, Sepahsālār Library, Ms. 564, ed. Yaḥyā Dūkā, “Ketāb al-adwār fīʿl-musiḳi, taʿlif Šafī-al-Dīn ... Ormavī,” *MJ*, 3rd series, nos. 46-56, 1960-61 (10 parts); anon. Pers. tr., Melli Malek Library, Ms. 831, ed. Ā. Rostamī, *Tarjama-ye Adwār-e Ormavī/Ketāb al-adwār fīʿl-musiḳā (Persian Translation and Arabic Text)*, Tehran, 2001.

Idem, *al-Resāla al-šaraḫīya fīʿl-nesab al-taʿlifīya*, ed. Hāšem Moḥammad Rajab, Baghdad, 1982; facs. ed. Eckhard Neubauer, Frankfurt, 1984; ed. M. al-Asʿad Qarīʿa (Lassaād Kriaa), Ph.D. diss. Kaslik, Lebanon, 2004; Fr. paraphrase by Bernard Carra de Vaux as “Le Traité des rapports musicaux ou l’Épître à Scharaf ed-Dīn, par Safī ed-Dīn ʿAbd el-Mumin Albaghdādī,” *JA*, 8th series, 18, 1891, pp. 279-355; tr., in Rodolphe d’Erlanger, *La musique arabe* III, Paris, 1938, pp. 1-182.

Ebn al-Kaṭīb Erbelī (fl. 729/1329), *Jawāher al-neẓām fī maʿrefat al-anḡām*, ed. Louis Cheikho, *Majallat al-mašreq* (Beirut) 16, 1913, pp. 895-901; ed. ʿAbbās ʿAzzāwī, *al-Musiḳā al-erāqiya fī ʿahd al-Moḡul wa-ʿl-Torkomān*, Baghdad, 1951.

Ebn Faẓl-Allāh ʿOmarī (d. 749/1348), *Masālek al-abṣār fī mamālek al-amṣār*, facs. ed., Fuat Sezgin et al., 27 vols., Frankfurt, 1988, X, on musicians.



Anonymous (first half of the 8th/14th cent.), *Ketāb al-mizān fi 'elm al-adwār wa'l-awzān*, ms. Gotha, orient. A 85, fols. 40b-62a.

Ebn Korr (d. 763/1362), *Ġāyat al-maṭlub fi 'elm al-anḡām wa-'l-żorub*, ms. London, British Museum, Or. 9247.

Studies.

Ja'far Āghāyānī Chāvoshī, "Omar Khayyām et la musique théorique," *Luqman* 16, 1999-2000, pp. 92-108.

Human As'adi, "Negāh-i ejmālī ba pišīna-ye tāriḡi-e musiqi dar Mā-warā'-al-Nahr," *Māhur* 5, 1999, pp. 59-88.

Idem "Negāh-i ejmālī ba sayr-e taḡawwol-e mafhum-e 'laḡn' dar musiqi-e jahān-e Eslām," *Māhur* 13, 2001, pp. 57-68.

'Abd-al-Moḡammad Āyatī, "Eshāq Mawṣeli," *Āmuzeš wa parvareš*, no. 54/2, 1975-76, pp. 153-57.

Mahdi Barkechli, "La gamme de la musique iranienne," *Annales des télécommunications* 5, 1950, pp. 195-203.

Idem, "Musiqi-e Ebn Sīnā," in *jašn-nāma-ye Ebn Sīnā* II, Tehran, 1955, pp. 466-77.

Idem, "Nażariyahā-ye qadim dar bāra-ye 'molāyamat'-e fawāṣel-e musiqi," *MJ*, 3rd series, no. 3, 1956, pp. 5-15.

Idem, "Parda-bandi-e ṡanbur-e Ḳorāsān asās-e ḡām-e musiqi-e mašreq wa-maḡreb," *MJ*, 3rd series, no. 6, 1956, pp. 5-16.

Idem, "Ḡām-e musiqi-e Irān," *MJ*, 3rd series, no. 12, 1957, pp. 4-12.



Idem, “Les rythmes caractéristiques de la musique iranienne,” in Hellmut Federhofer, Gerald Abraham, and Suzanne Clerc-Lejeune, eds., *Bericht über den 7. Internationalen Musikwissenschaftlichen Kongress Köln 1958*, Kassel etc., 1959, pp. 61-63.

Idem, “Molāyamat yak-i az pāyahā-ye ‘elmi-e modāwamat-e tāriqi-e musiqi-e irāni,” *Honar o mardom*, new series, nos. 107-8, 1971, pp. 70-75.

Idem, “Pāyagoḏārān -e mabāni-e ‘elmi-e musiqi-e Irān,” in *Guša-i az simā-ye tāriq-e taḥawwol-e ‘olum dar Irān*, Tehran, 1971, pp. 216-37.

Idem, “Recherche des degrés de la gamme iranienne à partir de la sensation subjective de consonance,” in *Acta Iranica* 3, 1974, pp. 339-60.

Idem, “Andišahā-ye ‘elmi-e Fārābi dar bāre-ye musiqi/Les idées scientifiques de Farabi dans la musique,” in idem, *Majmu‘a-ye soḡan-rānihā*, Tehran, 1974.

Idem, darajāt-e molāyamat-e fawāšel-e musiqi az naẓar-e Fārābi,” *Ḳerad wa kušeš* 6/1, 1975, pp. 106-33.

Idem, *Modāwamat dar oṣul-e musiqi-e Irān: gāmhā wa dastgāhhā-ye musiqi-e irāni/La continuité historique des principes dans la musique iranienne: les gammes et les systèmes de la musique iranienne*, Tehran, 1976.

Idem, “Mabān-e ‘elmī-ye musiqi-e irāni,” *Našriya-ye Anjoman-e farhang-e Irān-e bāstān*, no. 19, 1977, pp. 18-42.

Idem, “Gām-e kāmel-e zamān-e Fārābī wa-gāmhā-ye pišnehādi-e u,” *Honar o mardom*, new series, nos. 177-78, 1977, pp. 14-23.

Idem “Ebn Zayla Eṣfahānī, musiqi-šenās-e ‘āli-maqām-e qarn-e panjom,” in Moḡammad-Rasul Daryāgašt, ed., *Majmu‘a-ye soḡanrānihā-yehaftomin kongera-ye taḥqiqāt-e irāni* IV, 1978, pp. 21-33.



Manučehr Bāstānī, “Ketābhā-ye ḵaṭṭi dar bāra-ye musiḳi dar ketāb-ḵāna-ye Madrasa-ye ‘Ālī-e Sepahsālār wa Ketāb-ḵāna-ye Majles-e Šurā-ye Melli,” *MJ*, 3rd series, nos. 104-5, 1966, pp. 29-36.

Anna L. F. A. Beelaert, “The Complaint of Musical Instruments: The Evolution of an Image in Classical Persian Poetry,” in Bert G. Fragner, ed., *Proceedings of the Second European Conference of Iranian Studies Held in Bamberg, 30th September to 4th October 1991*, Rome, 1995, pp. 81-96.

Taqi Bīneš, “Šarḥ-e Adwār-e Yaḥyā Kāši,” *Arj-nāma-ye Iraj* II, Tehran, 1998, pp. 321-26.

Ebrāhim Borhān-āzād, “Seh tawšif-e šā‘erāna az čand ālat-e musiḳi az do šā‘er,” *Payām-e novin* 6/3, 1965, pp. 51-55.

J. Christoph Bürgel, “Musicotherapy in the Islamic Middle Ages as Reflected in Medical and Other Sources,” in Hakim M. Said, ed., *History and Philosophy of Science*, Karachi, ca. 1980, pp. 33-38.

Idem, *The Feather of Simurgh: The “Licit Magic” of the Arts in Medieval Islam*, New York and London, 1988, pp. 89-118 (“Music, Nourishment of the Soul”).

Nelly Caron and Dariouche Safvate, *Iran: les traditions musicales*, Paris, 1966.

Jean-Claude Chabrier, “Éléments d’une approche comparative des échelles théoriques arabo-irano-turques,” *Revue de musicologie* 71, 1985, pp. 39-78.

M. L. Roy Choudhury Sastri, “Sūfis and Music,” in Devadatta Ramkrishna Bhandarkar et al., eds., *BimalaCharanLaw Volume*, 2 vols., Poona, 1945-46, II, pp. 292-305.

Miguel Cruz Hernández, “La teoría musical de Ibn Sīnā en el Kitāb al-Šifā’,” in Abd al-Rahman Badawi et al., eds., *Milenario de Avicena*, Madrid, 1981, pp. 27-36.



Moḥammad Dāmādi, “Abu Sa‘id Abu’l-Ḳayr wa samā‘ (musiqi),” *Honar o mardom*, new series, no. 102-03, 1971, pp. 70-75. Yaḥyā Ḍokā’, “Ā’in-e naqqāra-kubi dar Irān wa manša’-e ān,” *Našriya-ye Anjoman-e farhang-e Irān-e bāstān*, no. 19, 1977, pp. 29-49. Jean During, “Revelation and spiritual audition in Islam,” *The World of Music* 24, 1982, pp. 68-82.

Idem, “Aspects du concert spirituel islamique: le samā’,” *La musique et le rite sacré et profane: actes du XIIIe congrès de la Société internationale de musicologie, 29 août-3 septembre 1982*, Strasbourg, 1986, pp. 475-79.

Idem, “Acoustic Systems and Metaphysical Systems in Oriental Traditions,” *The World of Music* 29, 1987, pp. 19-29.

Idem, “Systèmes acoustiques et systèmes métaphysiques dans les traditions orientales,” *L’esprit de la musique: essais d’esthétique et de philosophie*, Paris, 1992, pp. 177-86.

Idem, “Le grincement de la porte du paradis: la double structure du phénomène musical dans la culture islamique,” in Alma Giese and J. Christoph Bürgel, eds., *Gott ist schön und Er liebt die Schönheit: Festschrift für Annemarie Schimmel*, Bern and New York, 1994, pp. 153-79.

Idem, “Territorialité et territorialisation de l’espace musical musulman,” in Mohammad Ali Amir-Moezzi, ed., *Lieux d’islam: cultes et cultures de l’Afrique à Java*, Paris, 1996, pp. 321-31.

Idem, “Musique et rites: le samā’,” in Gilles Veinstein and Alexandre Popovic, eds., *Les voies d’Allah: les ordres mystiques dans l’islam des origines à aujourd’hui*, Paris, 1996, pp. 157-72.

Idem, “Hearing and Understanding in the Islamic Gnosis,” *The World of Music* 39, 1997, pp. 127-37.

Idem, “La représentation du rythme dans la théorie islamique ancienne,” in Marcel Pérès and Catherine Homo-Lechner, eds., *La rationalisation du temps*



au XIIIe siècle: Musique et mentalités: Actes du Colloque de Royaumont, 1991, Royaumont, 1998, pp. 145-65.

Idem, "The Symbolic Universe of Music in Islamic Societies," *The Garland Encyclopedia of Music VI: The Middle East*, New York etc., 2002, pp. 177-88. A. Dzhumaev, "Avitsenna i muzyka (Avicenna and music)," *Zvezda Vostoka*, 1980, no. 3, pp. 145-51.

Idem, "Ibn Sina ob obshchestvennykh funktsiyakh muzyki (Avicenna on the social function of music)," *Obshchestvennye nauki v Uzbekistane*, 1980, nos. 8-9, pp. 83-89.

Idem, "Traktat o muzyke Mukhammada Nishapuri (Moḥammad Nišāpuri's treatise on music)," *Obshchestvennye nauki v Uzbekistane*, no. 1, 1984, pp. 44-50.

Idem, "Muzykal'no-esteticheskie vzglyady Abu Ali Ibn Siny (Musical aesthetic views of Abu 'Ali Sina)," *Muzyka Narodov Azii i Afriki* 4, 1984, pp. 161-78.

Idem, "Obshchestvennoe polozhenie muzykanta na srednevekovom Vostoke (Social position of a musician in Medieval East)," in M. Rakhmanova, ed., *Muzykal'noye, teatral'noye iskusstvo i fol'klor*, Tashkent, 1992, pp. 16-28.

Henry George Farmer, "The Old Persian Musical Modes," *JRAS*, 1926, pp. 93-95.

Lois Ibsen Faruqi, "Al Ghazālī on Samā'," in Ismail R. Faruqi and A. O. Nasseef, eds., *Essays in Islamic and Comparative Studies*, Washington, D.C., 1982, pp. 43-50.

Idem, "The Shari'ah on Music and Musicians," in Ismail R. Faruqi, ed., *Islamic Thought and Culture*, Herndon, 1982, pp. 27-52.

Idem, "The Suite in Islamic History and Culture," *The World of Music* 27/3, 1985, pp. 46-66.



Mas'ud Farzād, “Ḥāfeẓ wa-mūsīqī: kašf-e Moğanni-nāma-ye Ḥāfeẓ,” *MJ*, nos. 1-2, 1939, pp. 17-29 (includes the text of the “Moğanni-nāma/Sāqi-nāma,” which is attributed to Ḥāfeẓ).

Mahdi Foruğ, “Ālāt-e musiqi-e qadim-e Irān wa-degar kešvarhā-ye Kāvar-e miāna,” *MJ*, 3rd series, nos. 4-16, 1956-57, (12 parts).

Idem, “Musiqi dar ātār-e Ebn Sinā,” *Muzik-e Irān* 4/7, 1957, p. 8.

Daniël Franke, *Museum des Institutes für Geschichte der Arabisch-Islamischen Wissenschaften: Beschreibung der Exponate I: Musikinstrumente*, Frankfurt on the Main, 2000.

H. Ghomi, “The *Samā'* in the *Ghazaliyyāt* of Moulānā Jalāleddin Rumi,” in Bert G. Fragner, ed., *Proceedings of the Second European Conference of Iranian Studies Held in Bamberg, 30th September to 4th October 1991*, Rome, 1995, pp. 191-206.

Iraj Golsorki, “Ketāb al-ağāni,” *Farhang*, no. 8, 1991, pp. 111-28.

María Dolores Guardiola, “Licitud de la venta de esclavas cantoras,” in Concepción Castillo Castillo and others, eds., *Homenaje al Profesor José María Fórneas Besteiro*, 2 vols. Granada, 1995, II, pp. 983-96.

Boris A. Gulisaschwili, “Ibn Sina und die reine Stimmung,” *Beiträge zur Musikwissenschaft* 9, 1967, pp. 272-83.

Esmā'īl Ḥākemi, “*Samā'* wa-ṭariqa-ye Mawlawiya,” *MJ*, 3rd series, no. 121, 1969, pp. 33-41.

Sirajul Haq, “*Samā'* and raqṣ of the Darwishes,” *Islamic Culture* 18, 1944, pp. 111-130.

Sa'di Ḥasanī, “Godāšta-ye musiqi-e irāni,” *MJ*, 4th series, no. 1, 1973, pp. 9-11.



Idem, “Musiqi irāni wa ḥamla-ye Moḡol,” *MJ*, 4th series, no. 3, 1973, pp. 15-16.

Idem, “Abu Yusof Ya‘qub b. Eshāq al-Kendi: al-Resāla fi kōbrat (!) al-ta‘lif,” *MJ*, 4th series, no. 9, 1974, pp. 7-15, 26.

A. Heitty, “The Contrasting Spheres of Free Women and Jawārī in the Literary Life of the Early ‘Abbāsīd Caliphate,” *al-Masāq* 3, 1990, pp. 31-51.

Ruḥ-Allāh Kāleqi, “Dāstān-e Eshāq (Mawṣeli),” *Payām-e novin* 1/1, 1958, pp. 23-31.

Idem, “Ṣafi-al-Din Ormavi,” *Payām-e novin* 1/7, 1958, pp. 24-32.

Parviz Nātel Kānlari “Ebrāhim Māhān,” *MJ*, no. 3, 1939, pp. 11-18.

Idem, “Eshāq Mawṣeli musiqidān-e bozorg-e irāni,” *MJ*, nos. 4-5, 1939, pp. 11-17.

Idem, “Ebrāhim Māhān wa Eshāq Mawṣeli,” *MJ*, 3rd series, no. 40, 1959, pp. 3-16 (repr. of the two previous articles).

Idem, “Waṣf-e ṣurat-e ālāt-e musiqi dar divān-e Kāqāni,” *Soḵan* 3, 1946, pp. 542-45, 643-46.

Ḥosayn Kādiv Jam, “Taṣawwof wa musiqi,” *MJ*, 3rd series, no. 129, 1971, pp. 11-24.

Navid Kermani, *Gott ist schön: Das ästhetische Erleben des Koran*, Munich, 1999, pp. 171 ff. (“Der Klang”); pp. 365-425 (“Das Hören der Sufis”).

Hilary Kilpatrick, “The Transmission of Songs in Mediaeval Arabic Culture,” in Urbain Vermeulen and D. De Smet, eds., *Philosophy and Arts in the Islamic World: Proceedings of the Eighteenth Congress of the Union Européenne des*



Arabisants et Islamisants held at the Katholieke Universiteit Leuven (September 3-September 9, 1996), Leuven, 1998, pp. 73-82.

Idem, "Princes, musiciens et musicologues à la cour abbasside," in Floréal Sanagustin, ed., *Les intellectuels en Orient musulman: Statut et fonction*, Cairo, 1999, pp. 1-15.

Idem, *Making the Great Book of Songs: Compilation and the Author's Craft in Abû l-Faraj al-Işbahanî's Kitâb al-aghânî*, London and New York, 2003.

Maḥmud Koşnām, "Mawlawi wa musiqi," *MJ*, 3rd series, no. 127-28, 1970, pp. 116-20.

J. P. N. Land, "Tonschriftversuche und Melodieproben aus dem muhammedanischen Mittelalter," *Sammelbände für vergleichende Musikwissenschaft* 1, 1922, pp. 79-85.

Stefano A. E. Leoni, "Kanz al-Tuhaf (Al-Musiqi). The Casket of (Music) Rarities: Ars musica and musica practica between Islam and Christianity," *International Review of the Aesthetics and Sociology of Music* 27, 1996, pp. 167-83.

Leonard Lewisohn, "The Sacred Music of Islam: Samā' in the Persian Sufi Tradition," *British Journal of Ethnomusicology* 6, 1997, pp. 1-33.

Iraj Malaki, "Barbat nām-e kohan-e 'ud," *MJ*, 3rd series, no. 82, 1963, pp. 32-36.

Ḥosayn-'Ali Mallāḥ, "Čang dar divān-e šā'erān," *MJ*, 3rd series, no. 79-80, 1963, pp. 10-27.

Idem, "Sāzhā-ye majhur," *MJ*, 3rd series, no. 81, 1963 – no. 91, 1964 (8 parts).

Idem, "Rūd," *MJ*, 3rd series, no. 100, 1965, pp. 30-42.



Idem, *Manučehri Dāmḡāni va musiqi*, Tehran, 1984 (first pub. in *MJ*, 3rd series, no. 98, 1965, pp. 47-75, no. 99, 1965, pp. 61-91).

Idem, “Qā’āni va musiqi,” *Payām-e novin*, 6/1, 1964, pp. 65-74; 6/11-12, 1966, pp. 56-67.

Idem, “Sābeqa-ye tāriki-e kaṭṭ-e musiqi dar Irān,” *MJ*, 3rd series, nos. 112-14, 1346 Š./1967-68, pp. 82-98.

Idem, “Šā’erān-e sorudguy va āšnā bā musiqi,” *MJ*, 3rd series, no. 130-36, 1971-72 (5 parts).

Idem, *Hāfez va musiqi*, Tehran, 1972, 2nd. ed. 1984. Idem, *Farhang-e sāzhā*, Tehran, 1997.

Liberty Manik, “Zwei Fassungen einer von Ṣafī al-Dīn notierten Melodie,” *Baessler-Archiv*, N. F. 23, 1975, pp. 145-151.

Moḥammad-Taḡi Mas’udiya, *Sāzhā-ye Irān*, Tehran, 2004.

‘Ali Mazāheri, “Zalzal-e Rāzi,” *Honarhā-ye melli* 1, 1955, pp. 60-65.

Idem, “Zalzal-e Rāzi,” *MJ*, 3rd series, no. 13, 1957, pp. 74-79.

Jean-Louis Michon, “Sacred Music and Dance in Islam,” in *World Spirituality XX: Islamic Spirituality*, ed. S. Hossein Nasr, New York, 1991, pp. 469-506.

Jean R. Michot, “L’Islam et le monde: al-Ghazālī et Ibn Taymiyya à propos de la musique (*samā’*),” in Jacques Taminiaux and G. Florival, eds., *Figures de la finitude. Études d’anthropologie philosophique*, Louvain-la-Neuve and Paris, 1988, pp. 246-61.

Moḥsen Moḥammadi, “Resāla-i be-kaṭṭ-e Ṣafī-al-Din Ormavi,” *Nāma-ye*



Bahārestān 1/2, 2001, pp. 75-82.

Moḥammad Moḥiṭ Ṭabāṭabā'i, "Ṣafi-al-Din Ormavi," *MJ*, 3/8-9, 1941, pp. 31-45; 3/10-11, 1942, pp. 44-59, and in *Muzik-e Irān* 4/1-4/8, 1955-56 (8 parts).

Aḥmad Musawi, "Ālāt-e musiḡi bar asās-e Mafātiḡ al-'olum va Nafāyes al-fonun," *Āhang* 4, 1989, pp. 265-270.

S. Hossein Nasr, "The Influence of Sufism on Traditional Persian Music," *Studies in Comparative Religion* 6, 1972, pp. 225-34.

Abdumannon Nazarov, *Forobiy va Ibn Sino musikiy ritmika khususida (mumtoz iyko' nazariyasi)*, Tashkent, 1995.

Idem, "Klassicheskaya teoriya iyka': Uchenie o muzykal'nom ritme Farabi i Ibn Siny (Classical theory of Iqā': The doctrine of musical rhythm in Fārābi and Ebn Sinā)," Ph.D. diss. Tashkent, 1996 (Aftoreferat).

Eckhard Neubauer, "Musik zur Mongolenzeit in Iran und den angrenzenden Ländern. I: Schwerpunkte des musikalischen Lebens und namentlich bekannte Musiker," *Der Islam* 45, 1969, pp. 233-60.

Idem, "Arabische Anleitungen zur Musiktherapie," *Zeitschrift für Geschichte der arabisch-islamischen Wissenschaften* 6, 1990, pp. 227-72.

Idem, "Der Bau der Laute und ihre Besaitung nach arabischen, persischen und türkischen Quellen des 9. bis 15. Jahrhunderts," *Zeitschrift für Geschichte der arabisch-islamischen Wissenschaften* 8, 1993, pp. 279-378.

Idem, "La musique savante musulmane et son développement," in Mohammad Ali Amir-Moezzi, ed., *Lieux d'Islam: cultes et cultures de l'Afrique à Java*, Paris, 1996, pp. 301-20.

Idem, "Zur Bedeutung der Begriffe Komponist und Komposition in der



Musikgeschichte der islamischen Welt,” *Zeitschrift für Geschichte der arabisch-islamischen Wissenschaften* 11, 1997, pp. 307-63.

Idem, *Arabische Musiktheorie von den Anfängen bis zum 6./12. Jahrhundert: Studien, Übersetzungen und Texte in Faksimile*, Frankfurt, 1998.

Idem, “Music in the Islamic Environment,” in *History of Civilizations of Central Asia IV: The Age of Achievement: A.D. 750 to the End of the Fifteenth Century*, ed. Clifford E. Bosworth and Mohammad S. Asimov, Paris, 2000, pp. 594-603, 676-79.

Asliddin Nizamov, “Ibn Sinā i ego muzykal’no-teoreticheskie sochineniya,” in N. Negmatov, ed., *Abuali Ibn Sino i ego epokha: K 1000-letiyu so dnya rozhdeniya* (Abu ‘Ali Sinā and his time: the millenium of his birth), Dushanbe, 1980, pp. 181-90.

Ḥamid-Rezā Pāsvār, “Mo‘arrefi-e panj resāla-ye musiqi az Kendi,” *Māhur* 16, 2002, pp. 121-39.

Louis Pouzet, “Prises de position autour du *samā’* en Orient musulman au VIIe/XIIIe siècle,” *Studia Islamica* 57, 1983, pp. 119-34.

Amir-Ḥosayn Purjawādi, “Resālahā-ye gomšoda-ye Fārābi dar musiqi,” *Māhur* 1, 1998, pp. 213-20.

Idem, “Yād-dāšt-i dar bāra-ye do maqāla-ye Fārmer,” *Māhur* 27, 2005, pp. 91-93, followed by: H. G. Farmer, “Olamā-ye bozorg-e Irān dar fann-e musiqi,” pp. 95-100, and Idem, “Ta’tir va nofuḍ-e Irān dar ta’bia-ye ālāt-e musiqi,” pp. 101-5.

J. Rouanet, “La ‘suite’ dans la musique musulmane,” *La revue musicale* 8/8, 1927, pp. 279-91, 8/9, 1927, pp. 14-23.

Moḥammad-Rezā Šafī’ī Kadkanī, “Yak eṣṭelāḥ-e musiqā’i dar še’r-e Ḥāfez,”



Māhūr 15, 2002, pp. 9-14.

Abu'l-Qāsem Salāmiān, "Eqtebās-e 'arab az honar va musiqi-e irāni," *Ārad va kušēš*, 6th series, no. 1, 1975, pp. 79-85.

George Dimitri Sawa, "The Status and Roles of the Secular Musicians in the *Kitāb al-Aghānī* (Book of Songs) of Abū al-Faraj al-Iṣbahānī (d. 356 A.H./967 A.D.)," *Asian Music* 17/1, 1985, pp. 69-82.

Idem, "Theories of Rhythm and Meter in the Medieval Middle East," in *The Garland Encyclopedia of World Music VI: The Middle East*, eds. Virginia Danielson, Scott Lloyd Marcus, and Dwight Reynolds, New York and London, 2002, pp. 387-93; tr. N. Taḥvildāri as "Te'orihā-ye ritm wa metr dar Kāvar-miāna-ye qorun-e wostā," *Māhur* 19, 2003, pp. 67-76.

Affan Seljuk, "Notes on the Origin and Development of Naubat," *Journal of the Malaysian Branch of the Royal Asiatic Society* 49, 1976, pp. 141-42.

Sāsān Sepantā, "Ta'lifāt-e bozorg dar musiqi-e Irān," *Muzik-e Irān* 12/1, 1963, pp. 29-31.

Idem, "Bar-rasihā-ye taḥlili wa taṭbiqi-e resāla-ye musiqi-e Kayyām," *Māhur* 14, 2002, pp. 11-23.

Mahdi Setāyešgar, *Vāža-nāma-ye musiqi-e Irān-zamīn*, 3 vols., Tehran, 1995-97.

A. Shariat Kāshānī, "L'expérience du corps et de l'espace chez Djalāl al-din Rūmī: la signification psychologique de la 'danse mystique' (*samā*) et la quête de l'identité plénière," *Luqmān* 13/2, 1997, pp. 75-100.

Amnon Shiloah, "Réflexions sur la danse artistique musulmane au moyen-âge," *Cahiers de civilisation médiévale* 5, 1962, pp. 463-74.

Idem, *Caractéristiques de l'art vocal arabe au moyen-âge*, Tel-Aviv, 1963.



Idem, “Reflets de la musique des divers peuples dans les écrits arabes sur la musique,” in Micheline Galley, ed., *Actes du Deuxième congrès international d’étude des cultures de la Méditerranée occidentale II*, Alger, 1978, pp. 268-73, 521.

Idem, “Music and Religion in Islam,” *Acta Musicologica* 69, 1997, pp. 143-55.

Soltān-‘Ali Soltānī, “Musiqi va musiqi-šenāsān-e Irān (Kānadān-e Abu Moḥammad Eshāq Arrajāni ma‘ruf ba Mawṣeli),” *Mehr* 5, 1937-38, pp. 531-38, 617-24, 637-53; 7, 1942-43, pp. 38-43, 113-22.

M. b. Tāwit Ṭanjī, “Al-Ṭarā’eq wa’l-alḥān al-musiqiya fi Efriqiya wa’l-Andalos,” *Majallat al-abḥāt* 21, 1968, pp. 93-116.

Rezā Toršizi, *Hezār sāl wazn (ritm) dar musiqi-e Irān*, Shiraz, 1997.

I. Vāmeqi, “Taḥlil-e tāriki az musiqi-e irāni,” *Muzik-e Irān* 6/10-8/10, 1958-60 (18 pars).

Eilhard Wiedemann, “Über die Herstellung von Glocken bei den Muslimen,” *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften* 9, 1910, pp. 475-76.

Idem, “Über Musikautomaten bei den Arabern,” in Giuseppe Salvo Cozzo, ed., *Centenario della nascita di Michele Amari*, 2 vols., Palermo, 1910, II, pp. 164-185; repr. in idem, *Gesammelte Schriften zur arabisch-islamischen Wissenschaftsgeschichte*, 3 vols., Frankfurt on the Main, 1984, I, pp. 451-72.

Idem, “Über Musikautomaten,” *Sitzungsberichte der Physikalisch-Medizinischen Societät zu Erlangen* 46, 1914, pp. 17-26.

Owen Wright, “Ibn al-Munajjim and the Early Arabian Modes,” *The Galpin Society Journal* 19, 1966, pp. 27-48.



Idem, "Music and Verse," in Alfred Felix L. Beeston et al., eds., *Arabic Literature to the End of the Umayyad Period*, Cambridge, 1983, pp. 433-59.

Idem, "A Preliminary Version of the *Kitāb al-Adwār*," *BSOAS* 58, 1995, pp. 455-78.

Idem, "Die melodischen Modi bei Ibn Sīnā und die Entwicklung der Modalpraxis von Ibn al-Munağğim bis zu Ṣafī al-Dīn al-Urmawī," *Zeitschrift für Geschichte der arabisch-islamischen Wissenschaften* 16, 2004-05, pp. 224-308.

Additional sources referred to:

Abu'l-Ġāzi Bahādor Khan, *Šajarat al-atrāk*, tr. J. J. P. Baron Desmaisons as *Histoires des Mogols et des Tatares*, 2 vols., St. Petersburg, 1871-74.

Dawlatšāh Samarqandi, *Tadkerat al-šo'arā'*, ed. Moḥammad 'Abbāsi, Tehran, 1958.

W. Duda, *Die Seltschukengeschichte des Ibn Bībī*, Copenhagen, 1959.

'Emād-al-Din Eṣfahāni, *Ḳarīdat al-qasr wa jarīdat al-'aṣr... foḏalā' ahlḲorāsān*, ed. 'A. M. Āl Ṭo'ma, Tehran, 1999.

'Ezz-al-Din Maḥmud Kāšāni, *Menhāj al-hedāya wa meftāḥ al-kefāya*, ed. Jalāl-dīn Homā'i, Tehran, 1988.

Henry George Farmer, "Ṭabl Khāna," in *EF¹*, Suppl., pp. 217-22.

Abu Ḥāmed Moḥammad Ġazālī, *Eḥyā' 'olum al-dīn*, ed. 'A. Ḳāledi, 5 vols., Beirut, 1998; tr. Mo'ayyed-al-Din Moḥammad Ḳvārazmi, ed. Ḥosayn Ḳadiv Jam, Tehran, 1972-74.

Ḥamza b. Ḥasan Eṣfahāni, *Ta'riḳ seni moluk al-arż wa'l-anbiā'*, ed. and tr. J. M. E.



Gottwaldt, 2 vols., St. Petersburg and Leipzig, 1844-48.

‘Amr b. Baḥr Jāḥez, *al-Tabaṣṣor be’l-tejāra*, ed. Ḥasan Ḥ. ‘Abd-al-Wahhāb, Beirut, 1966.

‘Aṭā Malek Jovayni, *Tārīk-e jahāngošā*, ed. Moḥammad Qazvini, 3 vols., London and Leiden, 1912-37; tr. John A. Boyle as *The History of the World Conqueror*, 2 vols., Manchester, 1958.

Mofazzal b. Sa‘d b. Ḥosayn Māfarruḳi Eṣfahāni, *Dekr maḥāsen Eṣfahān*, ed. Sayyed Jalāl-al-Din Ṭehrāni, Tehran, 1933; Pers. tr. by Sayyed Ḥosayn b. Moḥammad Āvi as *Tarjama-ye Maḥāsen-e Eṣfahān*, ed. ‘Abbās Eqbāl, Tehran, 1949.

Aḥmad b. Moḥammad Maydāni, *al-Sāmi fi’l-asāmi*, ed. Moḥammad Musā, Hendāwi, Cairo, 1967.

Menhāj-e Serāj Juzjāni, *Ṭabaqāt-e Nāserī*, Kandahar, 1949; ed. ‘Abd-al-Ḥayy Ḥabibi, 2 vols., Kabul, 1963-64.

Abu Ja‘far Moḥammad b. Ja‘far Naršaki, *Tārīk-e Bokārā*, ed. Charles Schefer as *Description topographique et historique de Boukhara*, Paris, 1892; ed. Moḥammad-Taḳi Modarres Rażawi, Tehran, 1972; tr. Richard N. Frye as *The History of Bukhara*, Cambridge, MA, 1954.

Eckhard Neubauer, “Ṣafi-al-Dīn Urmawī,” in *EI*² VIII, pp. 805-7.

Šehāb-al-Din Abu Ḥafṣ ‘Omar Sohravardi, *Awāref al-ma‘āref*, Beirut, 1966.

Suzani Samarqandi, *Divān*, ed. Nāṣer-al-Din Šāh-Ḥosayni, Tehran, 1965.

Abu Maṣṣūr ‘Abd-al-Malek Ṭa‘ālebi, *Ġorar aḳbār moluk al-fors*, ed. Hermann Zotenberg as *Histoire des rois des Perses*, Paris, 1900.

