Object: To make a bibliometric investigation of the articles published in four oral and maxillofacial radiology journals. Material and Methods: Articles published in Dentomaxillofacial Radiology (DMFR), Imaging Science in Dentistry (ISD), Journal of Oral and Maxillofacial Radiology (JOMR) and Oral Radiology (ORRA) in 2013 were reviewed. Editorial articles were not included in the study. For each article, type of the article, number of authors, number of references, geographic origin, and keywords were recorded. Frequency distribution was used for statistical analysis. Results: A total of 217 articles were published in the four selected journals in 2013. Research/original articles constituted 62.21% (n=135) and case reports constituted 25.34% (n=55) of all articles. The highest ratio of research/original articles to total number of articles was found for DMFR (70.68%) and the highest number of case reports to total articles was found for JOMR (58.33%). Across all four journals, the mean number of authors per article was 4.59. The mean number of authors per article was highest in ORRA (5.06). The mean number of references per article was 23.65 in the four selected journals. The mean number of references was highest in DMFR (25.71%). The authors were from 36 different countries. The most frequently used keywords for imaging technique and for anatomy were cone(-)beam computed tomography and temporomandibular joint, respectively. The most frequent keywords for pathosis were dens invaginatus, odontogenic tum(o)urs, osteonecrosis, osteoporosis, and trauma. Conclusion: The study shows that publication profiles varies between oral and maxillofacial radiology journals.