Ruben Pauwels

List of Publications by Year
in descending order

57	2,480	377584	232693
papers	citations	21	48
		h-index	g-index

60	60	60	1953
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impact of metal artefacts on subjective perception of image quality of 13 CBCT devices. Clinical Oral Investigations, 2022, 26, 4457-4466.	1.4	5
2	European consensus on patient contact shielding. Physica Medica, 2022, 96, 198-203.	0.4	5
3	CBCT-based assessment of root canal treatment using micro-CT reference images. Imaging Science in Dentistry, 2022, 52, 245.	0.6	2
4	Influence of head positioning during cone-beam CT imaging on the accuracy of virtual 3D models. Dentomaxillofacial Radiology, 2022, 51, .	1.3	1
5	A brief introduction to concepts and applications of artificial intelligence in dental imaging. Oral Radiology, 2021, 37, 153-160.	0.9	17
6	Strahlenbelastung und Strahlenschutz bei der Digitalen Volumentomographie. , 2021, , 39-57.		0
7	Artefacts at different distances from titanium and zirconia implants in cone-beam computed tomography: effect of tube current and metal artefact reduction. Clinical Oral Investigations, 2021, 25, 5087-5094.	1.4	13
8	Scatter-to-primary ratio in dentomaxillofacial cone-beam CT: effect of field of view and beam energy. Dentomaxillofacial Radiology, 2021, 50, 20200597.	1.3	5
9	Cone-Beam Computed Tomography in Endodontics—State of the Art. Current Oral Health Reports, 2021, 8, 9-22.	0.5	10
10	Artificial intelligence for detection of periapical lesions on intraoral radiographs: Comparison between convolutional neural networks and human observers. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2021, 131, 610-616.	0.2	29
11	Evaluation of 10 Cone-beam Computed Tomographic Devices for Endodontic Assessment of Fine Anatomic Structures. Journal of Endodontics, 2021, 47, 947-953.	1.4	5
12	Estimation of the radiation dose for dental spectral cone-beam CT. Dentomaxillofacial Radiology, 2021, 50, 20200372.	1.3	5
13	Impact of the blooming artefact on dental implant dimensions in 13 cone-beam computed tomography devices. International Journal of Implant Dentistry, 2021, 7, 67.	1.1	10
14	Attitude of Brazilian dentists and dental students regarding the future role of artificial intelligence in oral radiology: a multicenter survey. Dentomaxillofacial Radiology, 2021, 50, 20200461.	1.3	13
15	Efficacy of MAVIG X-Ray Protective Drapes in Reducing CTO Operator Radiation. Journal of Interventional Cardiology, 2021, 2021, 1-4.	0.5	3
16	European consensus on patient contact shielding. Insights Into Imaging, 2021, 12, 194.	1.6	23
17	Cone-beam Computed Tomographic—based Assessment of Filled C-shaped Canals: Artifact Expression of Cone-beam Computed Tomography as Opposed to Micro—computed Tomography and Nano—computed Tomography. Journal of Endodontics, 2020, 46, 1702-1711.	1.4	13
18	Cone beam computed tomography in dentomaxillofacial radiology: a two-decade overview. Dentomaxillofacial Radiology, 2020, 49, 20200145.	1.3	63

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19	In vivo quantification of mandibular bone remodeling and vascular changes in a Wistar rat model: A novel HR-MRI and micro-CT fusion technique. Imaging Science in Dentistry, 2020, 50, 199.	0.6	4
20	Thyroid shielding in cone beam computed tomography: recommendations towards appropriate use. Dentomaxillofacial Radiology, 2019, 48, 20190014.	1.3	22
21	Image quality optimization of narrow detector dental computed tomography for paediatric patients. Dentomaxillofacial Radiology, 2019, 48, 20190032.	1.3	9
22	Halve the dose while maintaining image quality in paediatric Cone Beam CT. Scientific Reports, 2019, 9, 5521.	1.6	48
23	Image quality optimization using a narrow vertical detector dental cone-beam CT. Dentomaxillofacial Radiology, 2019, 48, 20180357.	1.3	10
24	Three-dimensional imaging methods to quantify soft and hard tissues change after cleft-related treatment during growth in patients with cleft lip and/or cleft palate: a systematic review. Dentomaxillofacial Radiology, 2019, 48, 20180084.	1.3	4
25	CBCT Quality Assurance. , 2018, , 213-226.		1
26	Estimation of the radiation dose for pediatric CBCT indications: a prospective study on ProMax3D. International Journal of Paediatric Dentistry, 2018, 28, 300-309.	1.0	34
27	DIMITRA paediatric skull phantoms: development of age-specific paediatric models for dentomaxillofacial radiology research. Dentomaxillofacial Radiology, 2018, 47, 20170285.	1.3	22
28	Radiation Dose, Risks, and Protection in CBCT. , 2018, , 227-246.		3
29	What Is CBCT and How Does It Work?. , 2018, , 13-42.		3
30	Irradiation provided by dental radiological procedures in a pediatric population. European Journal of Radiology, 2018, 103, 112-117.	1.2	37
31	Pediatric cleft palate patients show a 3- to 5-fold increase in cumulative radiation exposure from dental radiology compared with an age- and gender-matched population: a retrospective cohort study. Clinical Oral Investigations, 2018, 22, 1783-1793.	1.4	23
32	Cone-beam CT in paediatric dentistry: DIMITRA project position statement. Pediatric Radiology, 2018, 48, 308-316.	1.1	174
33	Evaluation of medical physics training in radiology residency in 67 countries. Physica Medica, 2018, 54, 30-33.	0.4	3
34	Optimization of exposure parameters in dental cone beam computed tomography using a 3-step approach. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2018, 126, 545-552.	0.2	17
35	Acemannan increased bone surface, bone volume, and bone density in a calvarial defect model in skeletally-mature rats. Journal of Dental Sciences, 2018, 13, 334-341.	1.2	21
36	Determination of size-specific exposure settings in dental cone-beam CT. European Radiology, 2017, 27, 279-285.	2.3	27

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37	Spatial and contrast resolution of ultralow dose dentomaxillofacial CT imaging using iterative reconstruction technology. Dentomaxillofacial Radiology, 2017, 46, 20160452.	1.3	25
38	Influence of basis images and skull position on evaluation of cortical bone thickness in cone beam computed tomography. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2017, 123, 707-713.	0.2	7
39	Ultralow dose dentomaxillofacial CT imaging and iterative reconstruction techniques: variability of Hounsfield units and contrast-to-noise ratio. British Journal of Radiology, 2016, 89, 20151055.	1.0	17
40	Reduction of scatter-induced image noise in cone beam computed tomography: effect of field of view size and position. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2016, 121, 188-195.	0.2	41
41	Where and When To Inject Low Molecular Weight Heparin in Hemodiafiltration? A Cross Over Randomised Trial. PLoS ONE, 2015, 10, e0128634.	1.1	18
42	A comparative study for image quality and radiation dose of a cone beam computed tomography scanner and a multislice computed tomography scanner for paranasal sinus imaging. European Radiology, 2015, 25, 1891-1900.	2.3	25
43	Cone beam CT for dental and maxillofacial imaging: dose matters: TableÂ1.. Radiation Protection Dosimetry, 2015, 165, 156-161.	0.4	61
44	Linear Measurement Accuracy of Eight Cone Beam Computed Tomography Scanners. Clinical Implant Dentistry and Related Research, 2015, 17, 1217-1227.	1.6	16
45	Estimating cancer risk from dental cone-beam CT exposures based on skin dosimetry. Physics in Medicine and Biology, 2014, 59, 3877-3891.	1.6	57
46	Bedside monitoring of anticoagulation in chronic haemodialysis patients treated with tinzaparin. Nephrology Dialysis Transplantation, 2014, 29, 1092-1096.	0.4	8
47	Automated implant segmentation in cone-beam CT using edge detection and particle counting. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 733-743.	1.7	21
48	Quantification of metal artifacts on cone beam computed tomography images. Clinical Oral Implants Research, 2013, 24, 94-99.	1.9	165
49	A Novel Method to Estimate the Volume of Bone DefectsÂUsing Cone-Beam Computed Tomography: AnÂInÂVitro Study. Journal of Endodontics, 2013, 39, 1111-1115.	1.4	29
50	Effective dose range for dental cone beam computed tomography scanners. European Journal of Radiology, 2012, 81, 267-271.	1.2	485
51	Response to Letter to the Editor: Comment on â€œEffective dose range for dental cone beam computed tomography scannersâ€• European Journal of Radiology, 2012, 81, 4221-4224.	1.2	2
52	Future prospects for dental cone beam CT imaging. Imaging in Medicine, 2012, 4, 551-563.	0.0	18
53	Comparison of spatial and contrast resolution for cone-beam computed tomography scanners. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2012, 114, 127-135.	0.2	93
54	Development and applicability of a quality control phantom for dental coneâ€beam CT. Journal of Applied Clinical Medical Physics, 2011, 12, 245-260.	0.8	69

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55	Analysis of intensity variability in multislice and cone beam computed tomography. Clinical Oral Implants Research, 2011, 22, 873-879.	1.9	145
56	A comparative evaluation of Cone Beam Computed Tomography (CBCT) and Multi-Slice CT (MSCT). European Journal of Radiology, 2010, 75, 265-269.	1.2	312
57	A comparative evaluation of Cone Beam Computed Tomography (CBCT) and Multi-Slice CT (MSCT). Part II: On 3D model accuracy. European Journal of Radiology, 2010, 75, 270-274.	1.2	182