

Mahadevappa Mahesh

List of Publications by Year in descending order

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98
papers

9,322
citations

172457

29
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53230

85
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101
all docs

101
docs citations

101
times ranked

9064
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation Dose Associated With Common Computed Tomography Examinations and the Associated Lifetime Attributable Risk of Cancer. Archives of Internal Medicine, 2009, 169, 2078.	3.8	2,008
2	Effective Doses in Radiology and Diagnostic Nuclear Medicine: A Catalog. Radiology, 2008, 248, 254-263.	7.3	1,696
3	Projected Cancer Risks From Computed Tomographic Scans Performed in the United States in 2007. Archives of Internal Medicine, 2009, 169, 2071.	3.8	1,615
4	Radiologic and Nuclear Medicine Studies in the United States and Worldwide: Frequency, Radiation Dose, and Comparison with Other Radiation Sources—1950—2007. Radiology, 2009, 253, 520-531.	7.3	702
5	MEDICAL RADIATION EXPOSURE IN THE U.S. IN 2006: PRELIMINARY RESULTS. Health Physics, 2008, 95, 502-507.	0.5	448
6	Fluoroscopy: Patient Radiation Exposure Issues. Radiographics, 2001, 21, 1033-1045.	3.3	334
7	Radiation Exposure During Catheter Ablation of Atrial Fibrillation. Circulation, 2004, 110, 3003-3010.	1.6	208
8	How I Do It: Managing Radiation Dose in CT. Radiology, 2014, 273, 657-672.	7.3	157
9	The AAPM/RSNA Physics Tutorial for Residents. Radiographics, 2002, 22, 949-962.	3.3	151
10	Patient Exposure from Radiologic and Nuclear Medicine Procedures in the United States: Procedure Volume and Effective Dose for the Period 2006—2016. Radiology, 2020, 295, 418-427.	7.3	150
11	Feasibility of Dose-reduced Chest CT with Photon-counting Detectors: Initial Results in Humans. Radiology, 2017, 285, 980-989.	7.3	129
12	Predictors of fluoroscopy time and estimated radiation exposure during radiofrequency catheter ablation procedures. American Journal of Cardiology, 1998, 82, 451-458.	1.6	123
13	Dose and Pitch Relationship for a Particular Multislice CT Scanner. American Journal of Roentgenology, 2001, 177, 1273-1275.	2.2	116
14	Approaches to Enhancing Radiation Safety in Cardiovascular Imaging. Circulation, 2014, 130, 1730-1748.	1.6	101
15	Physics of Cardiac Imaging with Multiple-Row Detector CT. Radiographics, 2007, 27, 1495-1509.	3.3	100
16	CT Scan Parameters and Radiation Dose: Practical Advice for Radiologists. Journal of the American College of Radiology, 2013, 10, 840-846.	1.8	95
17	Electron beam CT versus helical CT scans for assessing coronary calcification: current utility and future directions. American Heart Journal, 2003, 146, 969-977.	2.7	79
18	Radiation Safety in Children With Congenital and Acquired Heart Disease. JACC: Cardiovascular Imaging, 2017, 10, 797-818.	5.3	78

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19	Management of radiotherapy patients with implanted cardiac pacemakers and defibrillators: A Report of the AAPM TG203. Medical Physics, 2019, 46, e757-e788.	3.0	77
20	Acute Radiation Dermatitis Following Radiofrequency Catheter Ablation of Atrioventricular Nodal Reentrant Tachycardia. PACE - Pacing and Clinical Electrophysiology, 1997, 20, 1834-1839.	1.2	72
21	Quality control for digital mammography in the ACRIN DMIST trial: Part I. Medical Physics, 2006, 33, 737.	3.0	66
22	AAPM/RSNA Physics Tutorial for Residents. Radiographics, 2004, 24, 1747-1760.	3.3	63
23	State-of-the-art in CT hardware and scan modes for cardiovascular CT. Journal of Cardiovascular Computed Tomography, 2012, 6, 154-163.	1.3	62
24	Practical techniques for reducing radiation exposure during cerebral angiography procedures. Journal of NeuroInterventional Surgery, 2015, 7, 141-145.	3.3	54
25	Advances in CT technology and application to pediatric imaging. Pediatric Radiology, 2011, 41, 493-497.	2.0	38
26	Extensively drug-resistant tuberculosis in a young child after travel to India. Lancet Infectious Diseases, The, 2015, 15, 1485-1491.	9.1	36
27	Lowering radiation dose for integrated assessment of coronary morphology and physiology: First experience with step-and-shoot CT angiography in a rubidium 82 PET-CT protocol. Journal of Nuclear Cardiology, 2008, 15, 783-790.	2.1	35
28	Automatic Exposure Control in CT: Applications and Limitations. Journal of the American College of Radiology, 2011, 8, 446-449.	1.8	32
29	Ultra-High-Resolution Coronary CT Angiography for Assessment of Patients with Severe Coronary Artery Calcification: Initial Experience. Radiology: Cardiothoracic Imaging, 2021, 3, e210053.	2.5	31
30	NCRP Report Number 160: Its Significance to Medical Imaging. Journal of the American College of Radiology, 2009, 6, 890-892.	1.8	30
31	CT Radiation Dose Reduction by Modifying Primary Factors. Journal of the American College of Radiology, 2011, 8, 369-372.	1.8	28
32	Analysis of limited-sequence head computed tomography for children with shunted hydrocephalus: potential to reduce diagnostic radiation exposure. Journal of Neurosurgery: Pediatrics, 2013, 12, 491-500.	1.3	28
33	Image quality and dose for a multisource cone-beam CT extremity scanner. Medical Physics, 2018, 45, 144-155.	3.0	27
34	Applications of Justification and Optimization in Medical Imaging. Journal of the American College of Radiology, 2014, 11, 36-44.	1.8	25
35	Applications of Justification and Optimization in Medical Imaging: Examples of Clinical Guidance for Computed Tomography Use in Emergency Medicine. Annals of Emergency Medicine, 2014, 63, 25-32.	0.6	21
36	Image Wisely and Choosing Wisely: Importance of Adult Body CT Protocol Design for Patient Safety, Exam Quality, and Diagnostic Efficacy. Journal of the American College of Radiology, 2015, 12, 1185-1190.	1.8	21

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37	Digital breast tomosynthesis: Image acquisition principles and artifacts. <i>Clinical Imaging</i> , 2019, 55, 188-195.	1.5	21
38	Location and direction dependence in the 3D MTF for a high-resolution CT system. <i>Medical Physics</i> , 2021, 48, 2760-2771.	3.0	19
39	The Choosing Wisely Campaign and Its Potential Impact on Diagnostic Radiation Burden. <i>Journal of the American College of Radiology</i> , 2013, 10, 65-66.	1.8	15
40	Balancing the Risks of Radiation and Anesthesia in Pediatric Patients. <i>Journal of the American College of Radiology</i> , 2017, 14, 1459-1461.	1.8	14
41	Virtual fluoroscopy for intraoperative C-arm positioning and radiation dose reduction. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	1.5	14
42	Slice Wars vs Dose Wars in Multiple-Row Detector CT. <i>Journal of the American College of Radiology</i> , 2009, 6, 201-202.	1.8	13
43	The MRI Helium Crisis: Past and Future. <i>Journal of the American College of Radiology</i> , 2016, 13, 1536-1537.	1.8	12
44	Addressing Technetium-99m Shortage. <i>Journal of the American College of Radiology</i> , 2017, 14, 681-683.	1.8	12
45	Airport Full-Body Scanners. <i>Journal of the American College of Radiology</i> , 2010, 7, 379-381.	1.8	10
46	Essential Role of a Medical Physicist in the Radiology Department. <i>Radiographics</i> , 2018, 38, 1665-1671.	3.3	10
47	Multisite multivendor validation of a quantitative MRI and CT compatible fat phantom. <i>Medical Physics</i> , 2021, 48, 4375-4386.	3.0	10
48	Medical Radiation Exposure with Focus on CT. <i>Reviews on Environmental Health</i> , 2010, 25, 69-74.	2.4	9
49	Physics Instruction for Radiology Residents in the Era of the New ABR Examination Process. <i>Journal of the American College of Radiology</i> , 2010, 7, 900-904.	1.8	9
50	Update on radiation safety and dose reduction in pediatric neuroradiology. <i>Pediatric Radiology</i> , 2015, 45, 370-374.	2.0	9
51	Benchmarking Lumbar Puncture Fluoroscopy Time during Fellowship Training. <i>American Journal of Neuroradiology</i> , 2017, 38, 656-658.	2.4	8
52	Patient Radiation Exposure: Imaging During Radiation Oncology Procedures: Executive Summary of NCRP Report No. 184. <i>Journal of the American College of Radiology</i> , 2020, 17, 1176-1182.	1.8	7
53	Federal Regulations (Effective June 2006) Require Dose Monitors on All New Fluoroscopes: How Will This Help Clinicians Keep Track of Patient Dose?. <i>Journal of the American College of Radiology</i> , 2007, 4, 130-132.	1.8	6
54	NCRP 168: Its Significance to Fluoroscopically Guided Interventional Procedures. <i>Journal of the American College of Radiology</i> , 2013, 10, 551-552.	1.8	6

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55	Is CT Perfusion Ready for Liver Cancer Treatment Evaluation?. Journal of the American College of Radiology, 2015, 12, 111-113.	1.8	6
56	CT Scans and Cancer Risks—A Practical Middle Path. Journal of the American College of Radiology, 2016, 13, 828-830.	1.8	6
57	Breaking News: Using Facebook Live to Transmit Radiologic Information Quickly on a Global Scale. Journal of the American College of Radiology, 2020, 17, 899-902.	1.8	6
58	CT Dose Reduction Strategy: To Modulate Dose or Not in Certain Patients?. Journal of the American College of Radiology, 2012, 9, 931-932.	1.8	5
59	Precision of 2 Low-dose Abdomen/Pelvis Cone Beam Computed Tomography Protocols for Alignment to Bone and Soft Tissue in Pediatric Patients Receiving Image Guided Radiation Therapy. Practical Radiation Oncology, 2019, 9, e307-e313.	2.1	5
60	Multislice Scanners and Radiation Dose. Journal of the American College of Radiology, 2009, 6, 127-128.	1.8	4
61	The utility of computed tomography in the management of fever and neutropenia in pediatric oncology. Pediatric Blood and Cancer, 2015, 62, 1761-1767.	1.5	4
62	A Call for the Structured Physicist Report. Journal of the American College of Radiology, 2016, 13, 307-309.	1.8	4
63	Personal Protective Equipment in Interventional Fluoroscopy: Distinguishing Evidence From Hype. Journal of the American College of Radiology, 2018, 15, 322-324.	1.8	4
64	How to Prepare for the Joint Commission's Sentinel Event Policy Pertaining to Prolonged Fluoroscopy. Journal of the American College of Radiology, 2008, 5, 601-603.	1.8	3
65	Radiation Dose Shift in Relative Proportion: The Case of Coronary Artery Calcium Studies. Journal of the American College of Radiology, 2014, 11, 634-635.	1.8	3
66	Last Series Hold: A Feature on Fluoroscopy Systems With the Potential to Reduce Patient and Operator Dose. Journal of the American College of Radiology, 2015, 12, 860-861.	1.8	3
67	Radiation Exposure and Patient Dose in Cardiology. Journal of the American College of Radiology, 2017, 14, 1581-1582.	1.8	3
68	Retention Concerns About MR Studies Using Gadolinium-Based Contrast Agents. Journal of the American College of Radiology, 2018, 15, 934-936.	1.8	3
69	Lowering radiation dose for integrated assessment of coronary morphology and physiology: First experience with step-and-shoot CT angiography in a rubidium 82 PET-CT protocol. Journal of Nuclear Cardiology, 2008, 15, 783-790.	2.1	2
70	Dual-Energy CT: Is It Ready for Prime Time?. Journal of the American College of Radiology, 2013, 10, 383-385.	1.8	2
71	Role of Noise in Medical Imaging. Journal of the American College of Radiology, 2018, 15, 1309.	1.8	2
72	Ultraviolet germicidal irradiation of the inner bore of a CT gantry. Journal of Applied Clinical Medical Physics, 2020, 21, 325-328.	1.9	2

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73	Theory, method, and test tools for determination of 3D MTF characteristics in cone-beam CT. Medical Physics, 2021, 48, 2772-2789.	3.0	2
74	Patient Communication for Medical Physicists. Journal of the American College of Radiology, 2021, 18, 1601-1604.	1.8	2
75	Next-generation x-ray CT units will provide <500 msec images with 3D resolution comparable to today's projection radiography. Medical Physics, 2003, 30, 1543-1545.	3.0	1
76	Technical Aspects of Respiration-Correlated 4-D CT for Radiation Therapy. Journal of the American College of Radiology, 2007, 4, 192-194.	1.8	1
77	Features to Consider When Selecting a New CT Scanner. Journal of the American College of Radiology, 2010, 7, 820-822.	1.8	1
78	Technical Factors for Consideration in Selecting a 4-D CT Simulator. Journal of the American College of Radiology, 2012, 9, 444-446.	1.8	1
79	JACR Radiation Dose Optimization in CT: An Online Resource Center for Radiologists. Journal of the American College of Radiology, 2013, 10, 477.	1.8	1
80	Radiation. Journal of the American College of Radiology, 2013, 10, 557-558.	1.8	1
81	Portable Wireless Digital Detectors: Advantages and Challenges. Journal of the American College of Radiology, 2014, 11, 212-214.	1.8	1
82	New Conversion Factors for Estimating Effective Doses During Cardiac CT. JACC: Cardiovascular Imaging, 2018, 11, 75-77.	5.3	1
83	Radiation Dose Reduction in Children With Hydrocephalus Using Ultrafast Brain MRI. Journal of the American College of Radiology, 2019, 16, 1173-1176.	1.8	1
84	Editorial for the Mini-Focused Issue on Medical Physics 3.0. Journal of the American College of Radiology, 2021, 18, 1596-1597.	1.8	1
85	Benchmarking CT Radiation Doses Based on Clinical Indications: Is Subjective Image Quality Enough?. Radiology, 2022, 302, 390-391.	7.3	1
86	Nuclear Medicine Annual 1995 , edited by Leonard M. Freeman. Medical Physics, 1996, 23, 1469-1469.	3.0	0
87	Mathematical Techniques in Nuclear Medicine , edited by S. T. Chandler and W. H. Thomson. Medical Physics, 1997, 24, 1184-1185.	3.0	0
88	Reflections on the Relationship Between the AAPM and the ACR. Journal of the American College of Radiology, 2008, 5, 1212-1213.	1.8	0
89	Challenges in Evaluating Flat-Panel Detector Fluoroscopy Systems. Journal of the American College of Radiology, 2013, 10, 223-224.	1.8	0
90	Radiation Changes in the 21st Century. Journal of the American College of Radiology, 2016, 13, 1404.	1.8	0

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91	Physicians'™ Perceptions of Radiation Dose Quantity Depend on the Language in Which It Is Expressed. Journal of the American College of Radiology, 2016, 13, 909-913.	1.8	0
92	Physician Leadership in Radiation Dose Optimization. Journal of the American College of Radiology, 2017, 14, 1256.	1.8	0
93	Complex Nature of Radiation Risk in Medical Imaging. Journal of the American College of Radiology, 2018, 15, 694.	1.8	0
94	The Importance of Spatial Resolution to Medical Imaging. Journal of the American College of Radiology, 2018, 15, 1127.	1.8	0
95	Contrast Resolution Role in Medical Imaging. Journal of the American College of Radiology, 2018, 15, 1002-1003.	1.8	0
96	Hybrid Model for the Medical Physics Imaging Residency Training. Journal of the American College of Radiology, 2019, 16, 762-763.	1.8	0
97	Temporal Trends and Interest in Coronary Artery Calcium Scoring Over Time: An Infodemiology Study. Mayo Clinic Proceedings Innovations, Quality & Outcomes, 2021, 5, 456-465.	2.4	0
98	Principios fñsicos de las tñcnicas de imagen cardiovascular. , 2005, , 1-88.		0