

Vinay A Duddalwar

List of Publications by Year in descending order

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122
papers

2,975
citations

159525

30
h-index

197736

49
g-index

124
all docs

124
docs citations

124
times ranked

3892
citing authors

#	ARTICLE	IF	CITATIONS
1	Personalized 3D printed model of kidney and tumor anatomy: a useful tool for patient education. World Journal of Urology, 2016, 34, 337-345.	1.2	258
2	Texture Analysis of Imaging: What Radiologists Need to Know. American Journal of Roentgenology, 2019, 212, 520-528.	1.0	157
3	Unsuspected Pulmonary Emboli in Cancer Patients: Clinical Correlates and Relevance. Journal of Clinical Oncology, 2006, 24, 4928-4932.	0.8	139
4	Unsuspected pulmonary emboli adversely impact survival in patients with cancer undergoing routine staging multi-slice detector computed tomography scanning. Journal of Thrombosis and Haemostasis, 2011, 9, 305-311.	1.9	131
5	Renal Tumor Contact Surface Area: A Novel Parameter for Predicting Complexity and Outcomes of Partial Nephrectomy. European Urology, 2014, 66, 884-893.	0.9	109
6	Robotic Level III Inferior Vena Cava Tumor Thrombectomy: Initial Series. Journal of Urology, 2015, 194, 929-938.	0.2	108
7	Abdominal Manifestations of Extranodal Lymphoma: Spectrum of Imaging Findings. American Journal of Roentgenology, 2008, 191, 198-206.	1.0	86
8	CT appearances of abdominal tuberculosis. Clinical Radiology, 2012, 67, 596-604.	0.5	72
9	Imaging Assessment of Congenital and Acquired Abnormalities of the Portal Venous System. Radiographics, 2011, 31, 905-926.	1.4	68
10	Outcomes after placement of colorectal stents. Colorectal Disease, 2005, 7, 70-73.	0.7	66
11	Selections from the Buffet of Food Signs in Radiology. Radiographics, 2002, 22, 1369-1384.	1.4	65
12	Which Patients with Negative Magnetic Resonance Imaging Can Safely Avoid Biopsy for Prostate Cancer?. Journal of Urology, 2019, 201, 268-277.	0.2	64
13	Contrast-enhanced ultrasound (CEUS) of cystic and solid renal lesions: a review. Abdominal Imaging, 2015, 40, 1982-1996.	2.0	63
14	Objective risk stratification of prostate cancer using machine learning and radiomics applied to multiparametric magnetic resonance images. Scientific Reports, 2019, 9, 1570.	1.6	60
15	Radiomics in Pulmonary Lesion Imaging. American Journal of Roentgenology, 2019, 212, 497-504.	1.0	59
16	Contrast-Enhanced Ultrasound of the Liver and Kidney. Radiologic Clinics of North America, 2014, 52, 1177-1190.	0.9	58
17	Reliability of CT-based texture features: Phantom study. Journal of Applied Clinical Medical Physics, 2019, 20, 155-163.	0.8	51
18	Machine learning based predictors for COVID-19 disease severity. Scientific Reports, 2021, 11, 4673.	1.6	48

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19	Pseudoaneurysm of the uterine artery after abdominal hysterectomy: Radiologic diagnosis and management. <i>American Journal of Obstetrics and Gynecology</i> , 2001, 185, 1269-1272.	0.7	47
20	Differentiation of Predominantly Solid Enhancing Lipid-Poor Renal Cell Masses by Use of Contrast-Enhanced CT: Evaluating the Role of Texture in Tumor Subtyping. <i>American Journal of Roentgenology</i> , 2018, 211, W288-W296.	1.0	45
21	Identifying aggressive prostate cancer foci using a DNA methylation classifier. <i>Genome Biology</i> , 2017, 18, 3.	3.8	43
22	High Intensity Focused Ultrasound Hemigland Ablation for Prostate Cancer: Initial Outcomes of a United States Series. <i>Journal of Urology</i> , 2020, 204, 741-747.	0.2	43
23	Shape and texture-based radiomics signature on CT effectively discriminates benign from malignant renal masses. <i>European Radiology</i> , 2021, 31, 1011-1021.	2.3	40
24	A Decision-Support Tool for Renal Mass Classification. <i>Journal of Digital Imaging</i> , 2018, 31, 929-939.	1.6	39
25	Quantitative assessment of solid renal masses by contrast-enhanced ultrasound with time-intensity curves: how we do it. <i>Abdominal Imaging</i> , 2015, 40, 2461-2471.	2.0	38
26	What the Radiologist Needs to Know About Urolithiasis: Part 1 Pathogenesis, Types, Assessment, and Variant Anatomy. <i>American Journal of Roentgenology</i> , 2012, 198, W540-W547.	1.0	37
27	A Randomized Phase II Open-Label Multi-Institution Study of the Combination of Bevacizumab and Erlotinib Compared to Sorafenib in the First-Line Treatment of Patients with Advanced Hepatocellular Carcinoma. <i>Oncology</i> , 2018, 94, 329-339.	0.9	36
28	CT-based radiomics stratification of tumor grade and TNM stage of clear cell renal cell carcinoma. <i>European Radiology</i> , 2022, 32, 2552-2563.	2.3	36
29	Incisional and Parastomal Hernia following Radical Cystectomy and Urinary Diversion: The University of Southern California Experience. <i>Journal of Urology</i> , 2016, 196, 777-781.	0.2	34
30	CT prediction of the Fuhrman grade of clear cell renal cell carcinoma (RCC): towards the development of computer-assisted diagnostic method. <i>Abdominal Imaging</i> , 2015, 40, 3168-3174.	2.0	33
31	Myocardial Radiomics in Cardiac MRI. <i>American Journal of Roentgenology</i> , 2020, 214, 536-545.	1.0	33
32	Diagnosis and Staging of Bladder Cancer. <i>Hematology/Oncology Clinics of North America</i> , 2021, 35, 531-541.	0.9	31
33	Growing teratoma syndrome: Clinical and radiographic characteristics. <i>International Journal of Urology</i> , 2014, 21, 905-908.	0.5	30
34	Imaging of traumatic adrenal injury. <i>Emergency Radiology</i> , 2012, 19, 499-503.	1.0	28
35	Computed tomography-based texture analysis of bladder cancer: differentiating urothelial carcinoma from micropapillary carcinoma. <i>Abdominal Radiology</i> , 2019, 44, 201-208.	1.0	26
36	What the Radiologist Needs to Know About Urolithiasis: Part 2 CT Findings, Reporting, and Treatment. <i>American Journal of Roentgenology</i> , 2012, 198, W548-W554.	1.0	24

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37	Quantitative Contour Analysis as an Image-based Discriminator Between Benign and Malignant Renal Tumors. <i>Urology</i> , 2018, 114, 121-127.	0.5	23
38	Deep learning based classification of solid lipid-poor contrast enhancing renal masses using contrast enhanced CT. <i>British Journal of Radiology</i> , 2020, 93, 20200002.	1.0	23
39	Whole lesion quantitative CT evaluation of renal cell carcinoma: differentiation of clear cell from papillary renal cell carcinoma. <i>SpringerPlus</i> , 2015, 4, 66.	1.2	22
40	Active Surveillance of Small Renal Masses. <i>Journal of Computer Assisted Tomography</i> , 2016, 40, 517-523.	0.5	22
41	Voxel-based whole-lesion enhancement parameters: a study of its clinical value in differentiating clear cell renal cell carcinoma from renal oncocytoma. <i>Abdominal Radiology</i> , 2017, 42, 552-560.	1.0	21
42	Novel kidney segmentation system to describe tumour location for nephron-sparing surgery. <i>World Journal of Urology</i> , 2015, 33, 865-871.	1.2	19
43	Pictorial review: Renal ultrasound. <i>Clinical Imaging</i> , 2018, 51, 133-154.	0.8	19
44	Identification of robust and reproducible CT texture metrics using a customized 3D printed texture phantom. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 98-107.	0.8	19
45	Whole-tumor 3D volumetric MRI-based radiomics approach for distinguishing between benign and malignant soft tissue tumors. <i>European Radiology</i> , 2021, 31, 8522-8535.	2.3	19
46	Qualitative and Quantitative Contrast-enhanced Endoscopic Ultrasound Improves Evaluation of Focal Pancreatic Lesions. <i>Clinical Gastroenterology and Hepatology</i> , 2020, 18, 917-925.e4.	2.4	18
47	Systematic Biopsy of the Prostate can Be Omitted in Men with PI-RADS _{v2} 5 and Prostate Specific Antigen Density Greater than 15%. <i>Journal of Urology</i> , 2021, 206, 289-297.	0.2	18
48	Impact of radiomics on prostate cancer detection: a systematic review of clinical applications. <i>Current Opinion in Urology</i> , 2020, 30, 754-781.	0.9	17
49	Improving needle biopsy accuracy in small renal mass using tumor-specific DNA methylation markers. <i>Oncotarget</i> , 2017, 8, 5439-5448.	0.8	17
50	Discrepancies in the Recommended Management of Adrenal Incidentalomas by Various Guidelines. <i>Journal of Urology</i> , 2021, 205, 52-59.	0.2	16
51	Intrahepatic Pseudoaneurysm Complicating Transjugular Biopsy of the Liver. <i>American Journal of Roentgenology</i> , 2001, 177, 819-821.	1.0	15
52	Extranodal lymphoma in the thorax: cross-sectional imaging findings. <i>Clinical Radiology</i> , 2009, 64, 542-549.	0.5	15
53	A Radiomic-based Machine Learning Algorithm to Reliably Differentiate Benign Renal Masses from Renal Cell Carcinoma. <i>European Urology Focus</i> , 2022, 8, 988-994.	1.6	15
54	Predicting clinical outcomes in COVID-19 using radiomics on chest radiographs. <i>British Journal of Radiology</i> , 2021, 94, 20210221.	1.0	15

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55	Spontaneous ureterocolic fistula secondary to calculous pyohydronephrosis. <i>British Journal of Radiology</i> , 2005, 78, 954-955.	1.0	14
56	Failed Endoscopic Therapy and the Interventional Radiologist: Non-Variceal Upper Gastrointestinal Bleeding. <i>Techniques in Gastrointestinal Endoscopy</i> , 2005, 7, 148-155.	0.3	14
57	One-Stop MRI and MRI/transrectal ultrasound fusion-guided biopsy: an expedited pathway for prostate cancer diagnosis. <i>World Journal of Urology</i> , 2020, 38, 949-956.	1.2	14
58	Atlanto-occipital dislocation: case report and discussion. <i>Canadian Journal of Emergency Medicine</i> , 2006, 8, 50-53.	0.5	13
59	Contrast-enhanced ultrasound findings of post-transplant lymphoproliferative disorder in a transplanted kidney: A case report and literature review. <i>Journal of Radiology Case Reports</i> , 2015, 9, 26-34.	0.2	13
60	Renal cancer with extensive level IV intracardiac tumour thrombus removed by robot. <i>Lancet</i> , The, 2020, 396, e88.	6.3	13
61	Quantitative magnetic resonance imaging (q-MRI) for the assessment of soft-tissue sarcoma treatment response: a narrative case review of technique development. <i>Clinical Imaging</i> , 2020, 63, 83-93.	0.8	13
62	Techniques and Outcomes of MRI-TRUS Fusion Prostate Biopsy. <i>Current Urology Reports</i> , 2021, 22, 27.	1.0	13
63	Does Computed Tomography Still Have Limitations to Distinguish Benign from Malignant Renal Tumors for Radiologists?. <i>Urologia Internationalis</i> , 2017, 99, 229-236.	0.6	11
64	Differentiating solid, non-macroscopic fat containing, enhancing renal masses using fast Fourier transform analysis of multiphase CT. <i>British Journal of Radiology</i> , 2018, 91, 20170789.	1.0	11
65	Juxtatumoral perinephric fat analysis in clear cell renal cell carcinoma. <i>Abdominal Radiology</i> , 2019, 44, 1470-1480.	1.0	11
66	Multiparametric magnetic resonance imaging facilitates reclassification during active surveillance for prostate cancer. <i>BJU International</i> , 2021, 127, 712-721.	1.3	11
67	Benchmarking Various Radiomic Toolkit Features While Applying the Image Biomarker Standardization Initiative toward Clinical Translation of Radiomic Analysis. <i>Journal of Digital Imaging</i> , 2021, 34, 1156-1170.	1.6	11
68	Abdominal Extraosseous Lesions of Multiple Myeloma: Imaging Findings. <i>Canadian Association of Radiologists Journal</i> , 2014, 65, 2-8.	1.1	9
69	Contrast-enhanced Sonography for Monitoring Neoadjuvant Chemotherapy in Soft Tissue Sarcomas. <i>Journal of Ultrasound in Medicine</i> , 2015, 34, 1489-1499.	0.8	9
70	Contrast-enhanced Ultrasound With Perflubutane for Sentinel Lymph Node Mapping in Cutaneous Melanoma: A Pilot Study. <i>Laryngoscope</i> , 2019, 129, 1117-1122.	1.1	9
71	Robotic Renal Artery Aneurysm Repair. <i>European Urology</i> , 2020, 78, 87-96.	0.9	9
72	Perioperative Outcome of Suprarenal Resection of Vena Cava Without Reconstruction in Urologic Malignancies: A Case Series and Review of the Literature. <i>Urology</i> , 2020, 142, 146-154.	0.5	9

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73	Automated Pediatric Abdominal Effective Diameter Measurements Versus Age-Predicted Body Size for Normalization of CT Dose. <i>Journal of Digital Imaging</i> , 2013, 26, 1151-1155.	1.6	8
74	Pulmonary Pseudoemboli. <i>Journal of Computer Assisted Tomography</i> , 2014, 38, 159-162.	0.5	8
75	Abdominal radiograph pearls and pitfalls for the emergency department radiologist: a pictorial review. <i>Abdominal Radiology</i> , 2017, 42, 987-1019.	1.0	8
76	Contrast-Enhanced Transrectal Ultrasound for Follow-Up After Focal HIFU Ablation for Prostate Cancer. <i>Journal of Ultrasound in Medicine</i> , 2019, 38, 811-819.	0.8	8
77	Radiomics and Bladder Cancer: Current Status. <i>Bladder Cancer</i> , 2020, 6, 343-362.	0.2	8
78	Non-Invasive Profiling of Advanced Prostate Cancer via Multi-Parametric Liquid Biopsy and Radiomic Analysis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2571.	1.8	8
79	Preoperative Imaging for Clinical Staging Prior to Radical Cystectomy. <i>Current Urology Reports</i> , 2016, 17, 62.	1.0	7
80	Scoping Review of Targeted Ultrasound Contrast Agents in the Detection of Angiogenesis. <i>Journal of Ultrasound in Medicine</i> , 2020, 39, 19-28.	0.8	7
81	Risk factors and natural history of parastomal hernia after radical cystectomy and ileal conduit. <i>BJU International</i> , 2022, 130, 381-388.	1.3	7
82	Quality Improvement With Discrete Event Simulation: A Primer for Radiologists. <i>Journal of the American College of Radiology</i> , 2016, 13, 417-423.	0.9	6
83	Refining neoadjuvant therapy clinical trial design for muscle-invasive bladder cancer before cystectomy: a joint US Food and Drug Administration and Bladder Cancer Advocacy Network workshop. <i>Nature Reviews Urology</i> , 2021, , .	1.9	6
84	Characterizing breast masses using an integrative framework of machine learning and CEUS-based radiomics. <i>Journal of Ultrasound</i> , 2022, 25, 699-708.	0.7	6
85	Low Dose CT Perfusion With K-Space Weighted Image Average (KWIA). <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3879-3890.	5.4	5
86	Objective risk stratification of prostate cancer using machine learning and radiomics applied to multiparametric magnetic resonance images. , 2020, , .		5
87	What Comes After Immuno-Oncology Therapy for Kidney Cancer?. <i>Kidney Cancer</i> , 2019, 3, 93-102.	0.2	4
88	PD14-07 DIFFERENTIATION BETWEEN CLEAR CELL RENAL CELL CARCINOMAS AND ONCOCYTOMAS USING TEXTURE ANALYSIS OF CT IMAGES. <i>Journal of Urology</i> , 2016, 195, .	0.2	3
89	Fast Fourier transform-based analysis of renal masses on contrast-enhanced computed tomography images for grading of tumor. , 2017, , .		3
90	The 3D EdgeRunner Pipeline: a novel shape-based analysis for neoplasms characterization. <i>Proceedings of SPIE</i> , 2016, 9788, .	0.8	2

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91	MP19-03 THE SHAPELY RENAL MASS: CONTOUR EVALUATION OF RENAL CELL CARCINOMA. Journal of Urology, 2016, 195, .	0.2	2
92	Radiomics-based quantitative biomarker discovery: development of a robust image processing infrastructure. Proceedings of SPIE, 2017, , .	0.8	2
93	Contrast-Enhanced Ultrasound of Spermatic Cord and Retroperitoneal Liposarcoma. Ultrasound Quarterly, 2018, 34, 292-296.	0.3	2
94	Natural History of Radiologic Incisional Hernia Following Robotic Nephrectomy. Journal of Endourology, 2020, 34, 974-980.	1.1	2
95	Evaluating the Association Between Comorbidities and COVID-19 Severity Scoring on Chest CT Examinations Between the Two Waves of COVID-19: An Imaging Study Using Artificial Intelligence. Cureus, 2022, 14, e21656.	0.2	2
96	580 RADIOLOGICAL PREDICTION OF PRESERVED RENAL MASS IN PATIENTS UNDERGOING LAPAROSCOPIC PARTIAL NEPHRECTOMY CORRELATION WITH OPERATIVE AND FUNCTIONAL OUTCOMES. Journal of Urology, 2012, 187, .	0.2	1
97	Multidimensional Interactive Radiology Report and Analysis: standardization of workflow and reporting for renal mass tracking and quantification. , 2015, 9681, .		1
98	EdgeRunner: a novel shape-based pipeline for tumours analysis and characterisation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 84-92.	1.3	1
99	Radiomic evaluation of treatment response in patients with glioblastoma: a pilot study. Neuro-Oncology, 2018, 20, v358-v358.	0.6	1
100	An 82-year-old female with chest pain radiating to the back and flank. Urology Case Reports, 2020, 32, 101220.	0.1	1
101	COMBINED INTRAPERITONEAL AND EXTRAPERITONEAL RUPTURE OF BLADDER. Journal of Trauma, 2002, 52, 606.	2.3	1
102	A randomized phase II open label multi-institution study of the combination of bevacizumab (B) and erlotinib (E) compared to sorafenib (S) in the first-line treatment of patients (pts) with advanced hepatocellular carcinoma (HCC).. Journal of Clinical Oncology, 2015, 33, 337-337.	0.8	1
103	A first-in-human phase I study of sEphB4-HSA (sEphB4) with expansion in hepatocellular (HCC) and cholangiocarcinoma (CCA).. Journal of Clinical Oncology, 2018, 36, e16136-e16136.	0.8	1
104	A first-in-human phase I study of sEphB4-HSA (sEphB4) with expansion in hepatocellular (HCC) and cholangiocarcinoma (CCA).. Journal of Clinical Oncology, 2018, 36, 285-285.	0.8	1
105	MR fat segmentation and quantification for abdominal volumetric and composition analysis. , 2018, , .		1
106	Comprehensive radiogenomics analysis of qualitative and quantitative features of cross-sectional imaging in the TCGA project in MIBC.. Journal of Clinical Oncology, 2019, 37, 482-482.	0.8	1
107	Renocolic Fistula: A Case Report. Scottish Medical Journal, 1998, 43, 59-60.	0.7	0
108	631 RENAL TUMOR CONTACT SURFACE AREA: A NOVEL CT-PARAMETER FOR PREDICTING PERI-OPERATIVE OUTCOMES USING ADVANCED IMAGE-PROCESSING SOFTWARE. Journal of Urology, 2013, 189, .	0.2	0

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109	MP08-13 MR RADIOMICS IN THE RISK STRATIFICATION OF PROSTATE CANCER. <i>Journal of Urology</i> , 2017, 197, .	0.2	0
110	MP100-14 HIGH INTENSITY FOCUSED ULTRASOUND KIDNEY ABLATION: PRE-CLINICAL SAFETY AND EFFICACY EVALUATION IN A PORCINE MODEL USING A 15MM LAPAROSCOPIC PROBE. <i>Journal of Urology</i> , 2017, 197, .	0.2	0
111	MP18-13 TEXTURE ANALYSIS OF ENHANCING, NON-LIPID CONTAINING SOLID RENAL MASSES: DIFFERENTIATION OF MALIGNANT FROM BENIGN RENAL TUMORS.. <i>Journal of Urology</i> , 2017, 197, .	0.2	0
112	Reply by Authors. <i>Journal of Urology</i> , 2021, 206, 426-426.	0.2	0
113	Reply by Authors. <i>Journal of Urology</i> , 2021, 206, 297-297.	0.2	0
114	Robotic Suprarenal Cavectomy Without Reconstruction in Renal Cell Carcinoma With Inferior Vena Cava Thrombosis. <i>Videourology (New Rochelle, N Y)</i> , 2021, 35, .	0.1	0
115	Systematic Biopsy of the Prostate can Be Omitted in Men with PI-RADSâ„¢5 and Prostate Specific Antigen Density Greater than 15%. Reply.. <i>Journal of Urology</i> , 2022, 207, 241-242.	0.2	0
116	Comparative effectiveness of CT colonography (CT-C) as a screening (Scr) tool for colorectal cancer (CRC).. <i>Journal of Clinical Oncology</i> , 2016, 34, e13049-e13049.	0.8	0
117	Prospective Tandem Study of Quantitative Contrast Endoscopic Ultrasound of the Pancreas. <i>American Journal of Gastroenterology</i> , 2017, 112, S489-S490.	0.2	0
118	Wavelets analysis for differentiating solid, non-macroscopic fat containing, enhancing renal masses: a pilot study. , 2017, , .		0
119	NecroQuant: quantitative assessment of radiological necrosis. , 2017, , .		0
120	Distinguishing fibrosis/necrosis from teratoma or viable disease in the retroperitoneum in post-chemotherapy, nonseminomatous testicular germ cell tumor using quantitative CT texture analysis.. <i>Journal of Clinical Oncology</i> , 2018, 36, 563-563.	0.8	0
121	CT-based texture characterization of lymphadenopathy in urothelial carcinoma: Prediction of treatment response.. <i>Journal of Clinical Oncology</i> , 2018, 36, 514-514.	0.8	0
122	CT-guided fiducial marker placement for stereotactic radiosurgery. , 0, , 24-31.		0