Vinay A Duddalwar

List of Publications by Year
in descending order

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	A Radiomic-based Machine Learning Algorithm to Reliably Differentiate Benign Renal Masses from Renal Cell Carcinoma. European Urology Focus, 2022, 8, 988-994.	1.6	15
2	Systematic Biopsy of the Prostate can Be Omitted in Men with PI-RADSâ„¢5 and Prostate Specific Antigen Density Greater than 15%. Reply.. Journal of Urology, 2022, 207, 241-242.	0.2	0
3	CT-based radiomics stratification of tumor grade and TNM stage of clear cell renal cell carcinoma. European Radiology, 2022, 32, 2552-2563.	2.3	36
4	Risk factors and natural history of parastomal hernia after radical cystectomy and ileal conduit. BJU International, 2022, 130, 381-388.	1.3	7
5	Characterizing breast masses using an integrative framework of machine learning and CEUS-based radiomics. Journal of Ultrasound, 2022, 25, 699-708.	0.7	6
6	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
7	Non-Invasive Profiling of Advanced Prostate Cancer via Multi-Parametric Liquid Biopsy and Radiomic Analysis. International Journal of Molecular Sciences, 2022, 23, 2571.	1.8	8
8	Multiparametric magnetic resonance imaging facilitates reclassification during active surveillance for prostate cancer. BJU International, 2021, 127, 712-721.	1.3	11
9	Shape and texture-based radiomics signature on CT effectively discriminates benign from malignant renal masses. European Radiology, 2021, 31, 1011-1021.	2.3	40
10	Identification of robust and reproducible CTâ€texture metrics using a customized 3Dâ€printed texture phantom. Journal of Applied Clinical Medical Physics, 2021, 22, 98-107.	0.8	19
11	Discrepancies in the Recommended Management of Adrenal Incidentalomas by Various Guidelines. Journal of Urology, 2021, 205, 52-59.	0.2	16
12	Machine learning based predictors for COVID-19 disease severity. Scientific Reports, 2021, 11, 4673.	1.6	48
13	Techniques and Outcomes of MRI-TRUS Fusion Prostate Biopsy. Current Urology Reports, 2021, 22, 27.	1.0	13
14	Whole-tumor 3D volumetric MRI-based radiomics approach for distinguishing between benign and malignant soft tissue tumors. European Radiology, 2021, 31, 8522-8535.	2.3	19
15	Diagnosis and Staging of Bladder Cancer. Hematology/Oncology Clinics of North America, 2021, 35, 531-541.	0.9	31
16	Reply by Authors. Journal of Urology, 2021, 206, 426-426.	0.2	0
17	Reply by Authors. Journal of Urology, 2021, 206, 297-297.	0.2	0
18	Systematic Biopsy of the Prostate can Be Omitted in Men with PI-RADSâ„¢ 5 and Prostate Specific Antigen Density Greater than 15%. Journal of Urology, 2021, 206, 289-297.	0.2	18

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19	Robotic Suprarenal Cavectomy Without Reconstruction in Renal Cell Carcinoma With Inferior Vena Cava Thrombosis. Videourology (New Rochelle, N Y), 2021, 35, .	0.1	0
20	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. Nature Reviews Urology, 2021, , .	1.9	6
21	Benchmarking Various Radiomic Toolkit Features While Applying the Image Biomarker Standardization Initiative toward Clinical Translation of Radiomic Analysis. Journal of Digital Imaging, 2021, 34, 1156-1170.	1.6	11
22	Predicting clinical outcomes in COVID-19 using radiomics on chest radiographs. British Journal of Radiology, 2021, 94, 20210221.	1.0	15
23	One-Stop MRI and MRI/transrectal ultrasound fusion-guided biopsy: an expedited pathway for prostate cancer diagnosis. World Journal of Urology, 2020, 38, 949-956.	1.2	14
24	Qualitative and Quantitative Contrast-enhanced Endoscopic Ultrasound Improves Evaluation of Focal Pancreatic Lesions. Clinical Gastroenterology and Hepatology, 2020, 18, 917-925.e4.	2.4	18
25	Robotic Renal Artery Aneurysm Repair. European Urology, 2020, 78, 87-96.	0.9	9
26	Scoping Review of Targeted Ultrasound Contrast Agents in the Detection of Angiogenesis. Journal of Ultrasound in Medicine, 2020, 39, 19-28.	0.8	7
27	Myocardial Radiomics in Cardiac MRI. American Journal of Roentgenology, 2020, 214, 536-545.	1.0	33
28	Impact of radiomics on prostate cancer detection: a systematic review of clinical applications. Current Opinion in Urology, 2020, 30, 754-781.	0.9	17
29	Radiomics and Bladder Cancer: Current Status. Bladder Cancer, 2020, 6, 343-362.	0.2	8
30	Renal cancer with extensive level IV intracardiac tumour thrombus removed by robot. Lancet, The, 2020, 396, e88.	6.3	13
31	Deep learning based classification of solid lipid-poor contrast enhancing renal masses using contrast enhanced CT. British Journal of Radiology, 2020, 93, 20200002.	1.0	23
32	Natural History of Radiologic Incisional Hernia Following Robotic Nephrectomy. Journal of Endourology, 2020, 34, 974-980.	1.1	2
33	Quantitative magnetic resonance imaging (q-MRI) for the assessment of soft-tissue sarcoma treatment response: a narrative case review of technique development. Clinical Imaging, 2020, 63, 83-93.	0.8	13
34	Low Dose CT Perfusion With K-Space Weighted Image Average (KWIA). IEEE Transactions on Medical Imaging, 2020, 39, 3879-3890.	5.4	5
35	Perioperative Outcome of Suprarenal Resection of Vena Cava Without Reconstruction in Urologic Malignancies: A Case Series and Review of the Literature. Urology, 2020, 142, 146-154.	0.5	9
36	An 82-year-old female with chest pain radiating to the back and flank. Urology Case Reports, 2020, 32, 101220.	0.1	1

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37	High Intensity Focused Ultrasound Hemigland Ablation for Prostate Cancer: Initial Outcomes of a United States Series. Journal of Urology, 2020, 204, 741-747.	0.2	43
38	Objective risk stratification of prostate cancer using machine learning and radiomics applied to multiparametric magnetic resonance images. , 2020, , .		5
39	Contrastâ€Enhanced Transrectal Ultrasound for Followâ€up After Focal HIFU Ablation for Prostate Cancer. Journal of Ultrasound in Medicine, 2019, 38, 811-819.	0.8	8
40	Computed tomography-based texture analysis of bladder cancer: differentiating urothelial carcinoma from micropapillary carcinoma. Abdominal Radiology, 2019, 44, 201-208.	1.0	26
41	What Comes After Immuno-Oncology Therapy for Kidney Cancer?. Kidney Cancer, 2019, 3, 93-102.	0.2	4
42	Reliability of CTâ€based texture features: Phantom study. Journal of Applied Clinical Medical Physics, 2019, 20, 155-163.	0.8	51
43	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
44	Texture Analysis of Imaging: What Radiologists Need to Know. American Journal of Roentgenology, 2019, 212, 520-528.	1.0	157
45	Radiomics in Pulmonary Lesion Imaging. American Journal of Roentgenology, 2019, 212, 497-504.	1.0	59
46	Contrastâ€Enhanced Ultrasound With Perflubutane for Sentinel Lymph Node Mapping in Cutaneous Melanoma: A Pilot Study. Laryngoscope, 2019, 129, 1117-1122.	1.1	9
47	Juxtatumoral perinephric fat analysis in clear cell renal cell carcinoma. Abdominal Radiology, 2019, 44, 1470-1480.	1.0	11
48	Which Patients with Negative Magnetic Resonance Imaging Can Safely Avoid Biopsy for Prostate Cancer?. Journal of Urology, 2019, 201, 268-277.	0.2	64
49	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
50	Pictorial review: Renal ultrasound. Clinical Imaging, 2018, 51, 133-154.	0.8	19
51	Quantitative Contour Analysis as an Image-based Discriminator Between Benign and Malignant Renal Tumors. Urology, 2018, 114, 121-127.	0.5	23
52	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. Oncology, 2018, 94, 329-339.	0.9	36
53	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
54	Contrast-Enhanced Ultrasound of Spermatic Cord and Retroperitoneal Liposarcoma. Ultrasound Quarterly, 2018, 34, 292-296.	0.3	2

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55	Differentiation of Predominantly Solid Enhancing Lipid-Poor Renal Cell Masses by Use of Contrast-Enhanced CT: Evaluating the Role of Texture in Tumor Subtyping. American Journal of Roentgenology, 2018, 211, W288-W296.	1.0	45
56	Radiomic evaluation of treatment response in patients with glioblastoma: a pilot study. Neuro-Oncology, 2018, 20, v358-v358.	0.6	1
57	A Decision-Support Tool for Renal Mass Classification. Journal of Digital Imaging, 2018, 31, 929-939.	1.6	39
58	Differentiating solid, non-macroscopic fat containing, enhancing renal masses using fast Fourier transform analysis of multiphase CT. British Journal of Radiology, 2018, 91, 20170789.	1.0	11
59	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
60	Distinguishing fibrosis/necrosis from teratoma or viable disease in the retroperitoneum in post-chemotherapy, nonseminomatous testicular germ cell tumor using quantitative CT texture analysis.. Journal of Clinical Oncology, 2018, 36, 563-563.	0.8	0
61	CT-based texture characterization of lymphadenopathy in urothelial carcinoma: Prediction of treatment response.. Journal of Clinical Oncology, 2018, 36, 514-514.	0.8	0
62	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
63	MR fat segmentation and quantification for abdominal volumetric and composition analysis. , 2018, , .		1
64	Radiomics-based quantitative biomarker discovery: development of a robust image processing infrastructure. Proceedings of SPIE, 2017, , .	0.8	2
65	Identifying aggressive prostate cancer foci using a DNA methylation classifier. Genome Biology, 2017, 18, 3.	3.8	43
66	Does Computed Tomography Still Have Limitations to Distinguish Benign from Malignant Renal Tumors for Radiologists?. Urologia Internationalis, 2017, 99, 229-236.	0.6	11
67	MP08-13 MR RADIOMICS IN THE RISK STRATIFICATION OF PROSTATE CANCER. Journal of Urology, 2017, 197, .	0.2	0
68	MP100-14 HIGH INTENSITY FOCUSED ULTRASOUND KIDNEY ABLATION: PRE-CLINICAL SAFETY AND EFFICACY EVALUATION IN A PORCINE MODEL USING A 15MM LAPAROSCOPIC PROBE. Journal of Urology, 2017, 197, .	0.2	0
69	MP18-13 TEXTURE ANALYSIS OF ENHANCING, NON-LIPID CONTAINING SOLID RENAL MASSES: DIFFERENTIATION OF MALIGNANT FROM BENIGN RENAL TUMORS.. Journal of Urology, 2017, 197, .	0.2	0
70	Voxel-based whole-lesion enhancement parameters: a study of its clinical value in differentiating clear cell renal cell carcinoma from renal oncocytoma. Abdominal Radiology, 2017, 42, 552-560.	1.0	21
71	Abdominal radiograph pearls and pitfalls for the emergency department radiologist: a pictorial review. Abdominal Radiology, 2017, 42, 987-1019.	1.0	8
72	Fast Fourier transform-based analysis of renal masses on contrast-enhanced computed tomography images for grading of tumor. , 2017, , .		3

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73	Improving needle biopsy accuracy in small renal mass using tumor-specific DNA methylation markers. Oncotarget, 2017, 8, 5439-5448.	0.8	17
74	Prospective Tandem Study of Quantitative Contrast Endoscopic Ultrasound of the Pancreas. American Journal of Gastroenterology, 2017, 112, S489-S490.	0.2	0
75	Wavelets analysis for differentiating solid, non-macroscopic fat containing, enhancing renal masses: a pilot study. , 2017, , .		0
76	NecroQuant: quantitative assessment of radiological necrosis. , 2017, , .		0
77	The 3D EdgeRunner Pipeline: a novel shape-based analysis for neoplasms characterization. Proceedings of SPIE, 2016, 9788, .	0.8	2
78	MP19-03 THE SHAPELY RENAL MASS: CONTOUR EVALUATION OF RENAL CELL CARCINOMA. Journal of Urology, 2016, 195, .	0.2	2
79	Incisional and Parastomal Hernia following Radical Cystectomy and Urinary Diversion: The University of Southern California Experience. Journal of Urology, 2016, 196, 777-781.	0.2	34
80	PD14-07 DIFFERENTIATION BETWEEN CLEAR CELL RENAL CELL CARCINOMAS AND ONCOCYTOMAS USING TEXTURE ANALYSIS OF CT IMAGES. Journal of Urology, 2016, 195, .	0.2	3
81	Quality Improvement With Discrete Event Simulation: A Primer for Radiologists. Journal of the American College of Radiology, 2016, 13, 417-423.	0.9	6
82	Preoperative Imaging for Clinical Staging Prior to Radical Cystectomy. Current Urology Reports, 2016, 17, 62.	1.0	7
83	Active Surveillance of Small Renal Masses. Journal of Computer Assisted Tomography, 2016, 40, 517-523.	0.5	22
84	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
85	Comparative effectiveness of CT colonography (CT-C) as a screening (Scr) tool for colorectal cancer (CRC).. Journal of Clinical Oncology, 2016, 34, e13049-e13049.	0.8	0
86	Contrast-enhanced ultrasound findings of post-transplant lymphoproliferative disorder in a transplanted kidney: A case report and literature review. Journal of Radiology Case Reports, 2015, 9, 26-34.	0.2	13
87	Robotic Level III Inferior Vena Cava Tumor Thrombectomy: Initial Series. Journal of Urology, 2015, 194, 929-938.	0.2	108
88	Quantitative assessment of solid renal masses by contrast-enhanced ultrasound with timeâ€“intensity curves: how we do it. Abdominal Imaging, 2015, 40, 2461-2471.	2.0	38
89	Multidimensional Interactive Radiology Report and Analysis: standardization of workflow and reporting for renal mass tracking and quantification. , 2015, 9681, .		1
90	Novel kidney segmentation system to describe tumour location for nephron-sparing surgery. World Journal of Urology, 2015, 33, 865-871.	1.2	19

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91	Contrast-enhanced ultrasound (CEUS) of cystic and solid renal lesions: a review. Abdominal Imaging, 2015, 40, 1982-1996.	2.0	63
92	Whole lesion quantitative CT evaluation of renal cell carcinoma: differentiation of clear cell from papillary renal cell carcinoma. SpringerPlus, 2015, 4, 66.	1.2	22
93	CT prediction of the Fuhrman grade of clear cell renal cell carcinoma (RCC): towards the development of computer-assisted diagnostic method. Abdominal Imaging, 2015, 40, 3168-3174.	2.0	33
94	Contrastâ€Enhanced Sonography for Monitoring Neoadjuvant Chemotherapy in Soft Tissue Sarcomas. Journal of Ultrasound in Medicine, 2015, 34, 1489-1499.	0.8	9
95	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
96	Contrast-Enhanced Ultrasound of the Liver and Kidney. Radiologic Clinics of North America, 2014, 52, 1177-1190.	0.9	58
97	Growing teratoma syndrome: Clinical and radiographic characteristics. International Journal of Urology, 2014, 21, 905-908.	0.5	30
98	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
99	Abdominal Extraosseous Lesions of Multiple Myeloma: Imaging Findings. Canadian Association of Radiologists Journal, 2014, 65, 2-8.	1.1	9
100	Pulmonary Pseudoemboli. Journal of Computer Assisted Tomography, 2014, 38, 159-162.	0.5	8
101	Automated Pediatric Abdominal Effective Diameter Measurements Versus Age-Predicted Body Size for Normalization of CT Dose. Journal of Digital Imaging, 2013, 26, 1151-1155.	1.6	8
102	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
103	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
104	CT appearances of abdominal tuberculosis. Clinical Radiology, 2012, 67, 596-604.	0.5	72
105	Imaging of traumatic adrenal injury. Emergency Radiology, 2012, 19, 499-503.	1.0	28
106	What the Radiologist Needs to Know About Urolithiasis: Part 2???CT Findings, Reporting, and Treatment. American Journal of Roentgenology, 2012, 198, W548-W554.	1.0	24
107	What the Radiologist Needs to Know About Urolithiasis: Part 1???Pathogenesis, Types, Assessment, and Variant Anatomy. American Journal of Roentgenology, 2012, 198, W540-W547.	1.0	37
108	Unsuspected pulmonary emboli adversely impact survival in patients with cancer undergoing routine staging multiâ€row detector computed tomography scanning. Journal of Thrombosis and Haemostasis, 2011, 9, 305-311.	1.9	131

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109	Imaging Assessment of Congenital and Acquired Abnormalities of the Portal Venous System. Radiographics, 2011, 31, 905-926.	1.4	68
110	Extranodal lymphoma in the thorax: cross-sectional imaging findings. Clinical Radiology, 2009, 64, 542-549.	0.5	15
111	Abdominal Manifestations of Extranodal Lymphoma: Spectrum of Imaging Findings. American Journal of Roentgenology, 2008, 191, 198-206.	1.0	86
112	Atlanto-occipital dislocation: case report and discussion. Canadian Journal of Emergency Medicine, 2006, 8, 50-53.	0.5	13
113	Unsuspected Pulmonary Emboli in Cancer Patients: Clinical Correlates and Relevance. Journal of Clinical Oncology, 2006, 24, 4928-4932.	0.8	139
114	Outcomes after placement of colorectal stents. Colorectal Disease, 2005, 7, 70-73.	0.7	66
115	Spontaneous ureterocolic fistula secondary to calculous pyohydroureteronephrosis. British Journal of Radiology, 2005, 78, 954-955.	1.0	14
116	Failed Endoscopic Therapy and the Interventional Radiologist: Non-Variceal Upper Gastrointestinal Bleeding. Techniques in Gastrointestinal Endoscopy, 2005, 7, 148-155.	0.3	14
117	Selections from the Buffet of Food Signs in Radiology. Radiographics, 2002, 22, 1369-1384.	1.4	65
118	COMBINED INTRAPERITONEAL AND EXTRAPERITONEAL RUPTURE OF BLADDER. Journal of Trauma, 2002, 52, 606.	2.3	1
119	Pseudoaneurysm of the uterine artery after abdominal hysterectomy: Radiologic diagnosis and management. American Journal of Obstetrics and Gynecology, 2001, 185, 1269-1272.	0.7	47
120	Intrahepatic Pseudoaneurysm Complicating Transjugular Biopsy of the Liver. American Journal of Roentgenology, 2001, 177, 819-821.	1.0	15
121	Renocolic Fistula: A Case Report. Scottish Medical Journal, 1998, 43, 59-60.	0.7	0
122	CT-guided fiducial marker placement for stereotactic radiosurgery. , 0, , 24-31.		0