

Kaustav Bera

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,007
citations

304602

22
h-index

233338

45
g-index

51
all docs

51
docs citations

51
times ranked

3588
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting cancer outcomes with radiomics and artificial intelligence in radiology. <i>Nature Reviews Clinical Oncology</i> , 2022, 19, 132-146.	12.5	221
2	Computational image features of immune architecture is associated with clinical benefit and survival in gynecological cancers across treatment modalities. , 2022, 10, e003833.		10
3	Oropharyngeal cancer outcomes correlate with p16 status, multinucleation and immune infiltration. <i>Modern Pathology</i> , 2022, 35, 1045-1054.	2.9	16
4	Coronary Artery Calcium Scoring: Current Status and Future Directions. <i>Radiographics</i> , 2022, 42, 947-967.	1.4	13
5	Spatial interplay patterns of cancer nuclei and tumor-infiltrating lymphocytes (TILs) predict clinical benefit for immune checkpoint inhibitors. <i>Science Advances</i> , 2022, 8, .	4.7	31
6	Novel Radiomic Measurements of Tumor-Associated Vasculature Morphology on Clinical Imaging as a Biomarker of Treatment Response in Multiple Cancers. <i>Clinical Cancer Research</i> , 2022, 28, 4410-4424.	3.2	6
7	Sexually dimorphic radiogenomic models identify distinct imaging and biological pathways that are prognostic of overall survival in glioblastoma. <i>Neuro-Oncology</i> , 2021, 23, 251-263.	0.6	24
8	Feature-driven local cell graph (Flock): New computational pathology-based descriptors for prognosis of lung cancer and HPV status of oropharyngeal cancers. <i>Medical Image Analysis</i> , 2021, 68, 101903.	7.0	34
9	Image analysis in drug discovery. , 2021, , 159-189.		0
10	Harnessing non-destructive 3D pathology. <i>Nature Biomedical Engineering</i> , 2021, 5, 203-218.	11.6	74
11	Abstract PS4-45: Computerized image analysis of nuclear morphological features reveals differences in phenotype and prognosis of disease free survival of early stage ER+ breast cancers for South Asian and North American women. <i>Cancer Research</i> , 2021, 81, PS4-45-PS4-45.	0.4	1
12	Prospective Evaluation of Repeatability and Robustness of Radiomic Descriptors in Healthy Brain Tissue Regions In Vivo Across Systematic Variations in T2-Weighted Magnetic Resonance Imaging Acquisition Parameters. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 1009-1021.	1.9	10
13	Computerized tumor multinucleation index (MuNI) is prognostic in p16+ oropharyngeal carcinoma. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	24
14	Hydraulic resistance induces cell phenotypic transition in confinement. <i>Science Advances</i> , 2021, 7, .	4.7	17
15	Distinguishing granulomas from adenocarcinomas by integrating stable and discriminating radiomic features on non-contrast computed tomography scans. <i>European Journal of Cancer</i> , 2021, 148, 146-158.	1.3	18
16	Computer extracted gland features from H&E predicts prostate cancer recurrence comparably to a genomic companion diagnostic test: a large multi-site study. <i>Npj Precision Oncology</i> , 2021, 5, 35.	2.3	13
17	A Novel Nodule Edge Sharpness Radiomic Biomarker Improves Performance of Lung-RADS for Distinguishing Adenocarcinomas from Granulomas on Non-Contrast CT Scans. <i>Cancers</i> , 2021, 13, 2781.	1.7	4
18	The fluid shear stress sensor TRPM7 regulates tumor cell intravasation. <i>Science Advances</i> , 2021, 7, .	4.7	56

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19	Computationally Derived Cribriform Area Index from Prostate Cancer Hematoxylin and Eosin Images Is Associated with Biochemical Recurrence Following Radical Prostatectomy and Is Most Prognostic in Gleason Grade Group 2. <i>European Urology Focus</i> , 2021, 7, 722-732.	1.6	15
20	Collagen fiber orientation disorder from H&E images is prognostic for early stage breast cancer: clinical trial validation. <i>Npj Breast Cancer</i> , 2021, 7, 104.	2.3	26
21	Computational Fluid Dynamics in Cardiovascular Imaging. <i>Advances in Clinical Radiology</i> , 2021, 3, 153-168.	0.1	0
22	Dual energy imaging in cardiothoracic pathologies: A primer for radiologists and clinicians. <i>European Journal of Radiology Open</i> , 2021, 8, 100324.	0.7	18
23	Novel Non-Invasive Radiomic Signature on CT Scans Predicts Response to Platinum-Based Chemotherapy and Is Prognostic of Overall Survival in Small Cell Lung Cancer. <i>Frontiers in Oncology</i> , 2021, 11, 744724.	1.3	15
24	Changes in CT Radiomic Features Associated with Lymphocyte Distribution Predict Overall Survival and Response to Immunotherapy in Non-Small Cell Lung Cancer. <i>Cancer Immunology Research</i> , 2020, 8, 108-119.	1.6	187
25	Novel, non-invasive imaging approach to identify patients with advanced non-small cell lung cancer at risk of hyperprogressive disease with immune checkpoint blockade. , 2020, 8, e001343.		64
26	Reimagining T Staging Through Artificial Intelligence and Machine Learning Image Processing Approaches in Digital Pathology. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 1039-1050.	1.0	10
27	Radiomic Texture and Shape Descriptors of the Rectal Environment on Post-Chemoradiation T2-Weighted MRI are Associated with Pathologic Tumor Stage Regression in Rectal Cancers: A Retrospective, Multi-Institution Study. <i>Cancers</i> , 2020, 12, 2027.	1.7	24
28	Dorsoventral polarity directs cell responses to migration track geometries. <i>Science Advances</i> , 2020, 6, eaba6505.	4.7	39
29	A prognostic model for overall survival of patients with early-stage non-small cell lung cancer: a multicentre, retrospective study. <i>The Lancet Digital Health</i> , 2020, 2, e594-e606.	5.9	38
30	Can Tumor Location on Pre-treatment MRI Predict Likelihood of Pseudo-Progression vs. Tumor Recurrence in Glioblastoma? A Feasibility Study. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 563439.	1.2	1
31	Radiomic Features of Primary Rectal Cancers on Baseline T ₂ -Weighted MRI Are Associated With Pathologic Complete Response to Neoadjuvant Chemoradiation: A Multisite Study. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 1531-1541.	1.9	50
32	CT derived radiomic score for predicting the added benefit of adjuvant chemotherapy following surgery in stage I, II resectable non-small cell lung cancer: a retrospective multicohort study for outcome prediction. <i>The Lancet Digital Health</i> , 2020, 2, e116-e128.	5.9	85
33	Radiogenomic-Based Survival Risk Stratification of Tumor Habitat on Gd-T1w MRI Is Associated with Biological Processes in Glioblastoma. <i>Clinical Cancer Research</i> , 2020, 26, 1866-1876.	3.2	67
34	Stable and discriminating radiomic predictor of recurrence in early stage non-small cell lung cancer: Multi-site study. <i>Lung Cancer</i> , 2020, 142, 90-97.	0.9	29
35	Introduction to radiomics and radiogenomics in neuro-oncology: implications and challenges. <i>Neuro-Oncology Advances</i> , 2020, 2, iv3-iv14.	0.4	20
36	Tumor Habitat-derived Radiomic Features at Pretreatment MRI That Are Prognostic for Progression-free Survival in Glioblastoma Are Associated with Key Morphologic Attributes at Histopathologic Examination: A Feasibility Study. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e190168.	3.0	26

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37	Radiomics risk score (RRS) on CT to predict survival and response to CDK 4/6 inhibitors in hormone receptor (HR) positive metastatic breast cancer (MBC).. Journal of Clinical Oncology, 2020, 38, e13041-e13041.	0.8	1
38	Artificial intelligence in digital pathology â€” new tools for diagnosis and precision oncology. Nature Reviews Clinical Oncology, 2019, 16, 703-715.	12.5	807
39	Predicting pathologic response to neoadjuvant chemoradiation in resectable stage III non-small cell lung cancer patients using computed tomography radiomic features. Lung Cancer, 2019, 135, 1-9.	0.9	51
40	Quantitative nuclear histomorphometric features are predictive of Oncotype DX risk categories in ductal carcinoma in situ: preliminary findings. Breast Cancer Research, 2019, 21, 114.	2.2	17
41	Confinement hinders motility by inducing RhoA-mediated nuclear influx, volume expansion, and blebbing. Journal of Cell Biology, 2019, 218, 4093-4111.	2.3	64
42	Association of Peritumoral Radiomics With Tumor Biology and Pathologic Response to Preoperative Targeted Therapy for HER2 (ERBB2)-Positive Breast Cancer. JAMA Network Open, 2019, 2, e192561.	2.8	196
43	Combination of Peri- and Intratumoral Radiomic Features on Baseline CT Scans Predicts Response to Chemotherapy in Lung Adenocarcinoma. Radiology: Artificial Intelligence, 2019, 1, 180012.	3.0	73
44	Perinodular and Intranodular Radiomic Features on Lung CT Images Distinguish Adenocarcinomas from Granulomas. Radiology, 2019, 290, 783-792.	3.6	226
45	Radiogenomic analysis of hypoxia pathway is predictive of overall survival in Glioblastoma. Scientific Reports, 2018, 8, 7.	1.6	113
46	Shape Features of the Lesion Habitat to Differentiate Brain Tumor Progression from Pseudoprogression on Routine Multiparametric MRI: A Multisite Study. American Journal of Neuroradiology, 2018, 39, 2187-2193.	1.2	61
47	Computer extracted features of cancer nuclei from H&E stained tissues of tumor predicts response to nivolumab in non-small cell lung cancer.. Journal of Clinical Oncology, 2018, 36, 12061-12061.	0.8	10
48	Computer-extracted features relating to spatial arrangement of tumor infiltrating lymphocytes to predict response to nivolumab in non-small cell lung cancer (NSCLC).. Journal of Clinical Oncology, 2018, 36, 12115-12115.	0.8	11
49	3D Printing-Based Integrated Water Quality Sensing System. Sensors, 2017, 17, 1336.	2.1	27
50	Application of PVAâ€”PDDA polymer electrolyte composite anion exchange membrane separator for improved bioelectricity production in a single chambered microbial fuel cell. Chemical Engineering Journal, 2014, 257, 138-147.	6.6	64