Rivka R Colen

List of Publications by Year
in descending order

112 papers	7,432 citations	101543 36 h-index	58581 82 g-index
115 all docs	115 docs citations	115 times ranked	11865 citing authors

#	Article	IF	Citations
1	Selinexor in combination with carboplatin and paclitaxel in patients with advanced solid tumors: Results of a single-center, multi-arm phase Ib study. Investigational New Drugs, 2022, 40, 290-299.	2.6	3
2	Evolving Role and Translation of Radiomics and Radiogenomics in Adult and Pediatric Neuro-Oncology. American Journal of Neuroradiology, 2022, 43, 792-801.	2.4	10
3	Selinexor in Combination with Carboplatin and Pemetrexed in Patients with Advanced or Metastatic Solid Tumors: Results of an Open-Label, Single-Center, Multi-Arm Phase 1b Study. Journal of Immunotherapy and Precision Oncology, 2022, 5, 10-12.	1.4	0
4	A weakly supervised deep learning-based method for glioma subtype classification using WSI and mpMRIs. Scientific Reports, 2022, 12, 6111.	3.3	17
5	Predicting Survival Duration With MRI Radiomics of Brain Metastases From Non-small Cell Lung Cancer. Frontiers in Oncology, 2021, 11, 621088.	2.8	23
6	Selinexor in combination with topotecan in patients with advanced or metastatic solid tumors: Results of an open-label, single-center, multiâ€arm phase Ib study. Investigational New Drugs, 2021, 39, 1357-1365.	2.6	5
7	Radiomics analysis for predicting pembrolizumab response in patients with advanced rare cancers. , 2021, 9, e001752.		34
8	MRI-Based Radiomics and Radiogenomics in the Management of Low-Grade Gliomas: Evaluating the Evidence for a Paradigm Shift. Journal of Clinical Medicine, 2021, 10, 1411.	2.4	21
9	Implementation of a Novel Web-Based Lesion Selection Tool to Improve Acquisition of Tumor Biopsy Specimens. Journal of Immunotherapy and Precision Oncology, 2021, 4, 45-52.	1.4	5
10	Author response to Cunha et al. , 2021, 9, e003299.		0
11	Clinical Outcomes in Nonâ€“Small-Cell Lung Cancer Patients Treated With EGFR-Tyrosine Kinase Inhibitors and Other Targeted Therapies Based on Tumor Versus Plasma Genomic Profiling. JCO Precision Oncology, 2021, 5, 1241-1249.	3.0	11
12	Novel theranostic agent for PET imaging and targeted radiopharmaceutical therapy of tumour-infiltrating immune cells in glioma. EBioMedicine, 2021, 71, 103571.	6.1	13
13	A validated integrated clinical and molecular glioblastoma long-term survival-predictive nomogram. Neuro-Oncology Advances, 2021, 3, vdaa146.	0.7	10
14	Cancer Imaging in Immunotherapy. Advances in Experimental Medicine and Biology, 2021, 1342, 431-447.	1.6	2
15	Selinexor in combination with standard chemotherapy in patients with advanced or metastatic solid tumors. Experimental Hematology and Oncology, 2021, 10, 59.	5.0	4
16	Magnetic Resonance-Based Radiomic Analysis of Radiofrequency Lesion Predicts Outcomes After Percutaneous Cordotomy: A Feasibility Study. Operative Neurosurgery, 2020, 18, 721-727.	0.8	2
17	Window-of-opportunity clinical trial of pembrolizumab in patients with recurrent glioblastoma reveals predominance of immune-suppressive macrophages. Neuro-Oncology, 2020, 22, 539-549.	1.2	98
18	Federated learning in medicine: facilitating multi-institutional collaborations without sharing patient data. Scientific Reports, 2020, 10, 12598.	3.3	509

#	Article	IF	Citations
19	Differentiating Peripherally-Located Small Cell Lung Cancer From Non-small Cell Lung Cancer Using a CT Radiomic Approach. Frontiers in Oncology, 2020, 10, 593.	2.8	25
20	Phase I study of intraventricular infusions of autologous ex vivo expanded NK cells in children with recurrent medulloblastoma and ependymoma. Neuro-Oncology, 2020, 22, 1214-1225.	1.2	48
21	AI-based prognostic imaging biomarkers for precision neuro-oncology: the ReSPOND consortium. Neuro-Oncology, 2020, 22, 886-888.	1.2	31
22	Radiomic prediction of mutation status based on MR imaging of lung cancer brain metastases. Magnetic Resonance Imaging, 2020, 69, 49-56.	1.8	34
23	Brain extraction on MRI scans in presence of diffuse glioma: Multi-institutional performance evaluation of deep learning methods and robust modality-agnostic training. NeuroImage, 2020, 220, 117081.	4.2	35
24	Cancer Imaging in Immunotherapy. Advances in Experimental Medicine and Biology, 2020, 1244, 309-324.	1.6	4
25	Diffusion-weighted MR imaging histogram analysis in HIV positive and negative patients with primary central nervous system lymphoma as a predictor of outcome and tumor proliferation. Oncotarget, 2020, 11, 4093-4103.	1.8	1
26	Multicenter study demonstrates radiomic features derived from magnetic resonance perfusion images identify pseudoprogression in glioblastoma. Nature Communications, 2019, 10, 3170.	12.8	113
27	Neurosurgical applications of MRI guided laser interstitial thermal therapy (LITT). Cancer Imaging, 2019, 19, 65.	2.8	105
28	Whole Tumor Histogram Analysis Using DW MRI in Primary Central Nervous System Lymphoma Correlates with Tumor Biomarkers and Outcome. Cancers, 2019, 11, 1506.	3.7	11
29	Primary central nervous system lymphoma in patients with and without HIV infection: a multicenter study and comparison with U.S national data. Cancer Causes and Control, 2019, 30, 477-488.	1.8	21
30	Multi-center study finds postoperative residual non-enhancing component of glioblastoma as a new determinant of patient outcome. Journal of Neuro-Oncology, 2018, 139, 125-133.	2.9	26
31	Validation of postoperative residual contrast-enhancing tumor volume as an independent prognostic factor for overall survival in newly diagnosed glioblastoma. Neuro-Oncology, 2018, 20, 1240-1250.	1.2	64
32	Dexamethasone-mediated oncogenicity in vitro and in an animal model of glioblastoma. Journal of Neurosurgery, 2018, 129, 1446-1455.	1.6	22
33	Radiomics to predict immunotherapy-induced pneumonitis: proof of concept. Investigational New Drugs, 2018, 36, 601-607.	2.6	90
34	Incidence of immune-related adverse events and its association with treatment outcomes: the MD Anderson Cancer Center experience. Investigational New Drugs, 2018, 36, 638-646.	2.6	149
35	118 Use of MR Texture Analysis to Predict Outcome After Percutaneous Cordotomy for Medically Refractory Cancer Pain. Neurosurgery, 2018, 65, 86.	1.1	0
36	Comparison of functional localization accuracy with different coâ€registration strategies in presurgical <scp>fMRI</scp> for brain tumor patients. Medical Physics, 2018, 45, 3223-3228.	3.0	2

#	Article	IF	Citations
37	A Coclinical Radiogenomic Validation Study: Conserved Magnetic Resonance Radiomic Appearance of Periostin-Expressing Glioblastoma in Patients and Xenograft Models. Clinical Cancer Research, 2018, 24, 6288-6299.	7.0	74
38	A prospective in silico analysis of interdisciplinary and interobserver spatial variability in post-operative target delineation of high-risk oral cavity cancers: Does physician specialty matter?. Clinical and Translational Radiation Oncology, 2018, 12, 40-46.	1.7	16
39	The vast potential and bright future of neuroimaging. British Journal of Radiology, 2018, 91, 20170505.	2.2	8
40	Learning MRI-based classification models for MGMT methylation status prediction in glioblastoma. Computer Methods and Programs in Biomedicine, 2017, 140, 249-257.	4.7	75
41	From K-space to Nucleotide. Topics in Magnetic Resonance Imaging, 2017, 26, 33-41.	1.2	2
42	Cancer Imaging in Immunotherapy. Advances in Experimental Medicine and Biology, 2017, 995, 141-153.	1.6	11
43	Silent Sentence Completion Shows Superiority Localizing Wernickeâ€™s Area and Activation Patterns of Distinct Language Paradigms Correlate with Genomics: Prospective Study. Scientific Reports, 2017, 7, 12054.	3.3	9
44	Neurosurgical Applications of High-Intensity Focused Ultrasound with Magnetic Resonance Thermometry. Neurosurgery Clinics of North America, 2017, 28, 559-567.	1.7	10
45	CD90 Expression Controls Migration and Predicts Dasatinib Response in Glioblastoma. Clinical Cancer Research, 2017, 23, 7360-7374.	7.0	45
46	FGWAS: Functional genome wide association analysis. NeuroImage, 2017, 159, 107-121.	4.2	39
47	A Dexamethasone-regulated Gene Signature Is Prognostic for Poor Survival in Glioblastoma Patients. Journal of Neurosurgical Anesthesiology, 2017, 29, 46-58.	1.2	28
48	Untying the Knot. Topics in Magnetic Resonance Imaging, 2017, 26, 1.	1.2	0
49	Radiographic patterns of progression with associated outcomes after bevacizumab therapy in glioblastoma patients. Journal of Neuro-Oncology, 2017, 135, 75-81.	2.9	14
50	Radiomic Phenotyping in Brain Cancer to Unravel Hidden Information in Medical Images. Topics in Magnetic Resonance Imaging, 2017, 26, 43-53.	1.2	32
51	Diffusion MRI Phenotypes Predict Overall Survival Benefit from Anti-VEGF Monotherapy in Recurrent Glioblastoma: Converging Evidence from Phase II Trials. Clinical Cancer Research, 2017, 23, 5745-5756.	7.0	53
52	Distinct Radiomic Phenotypes Define Glioblastoma TP53-PTEN-EGFR Mutational Landscape. Neurosurgery, 2017, 64, 203-210.	1.1	29
53	Radiomic Texture Analysis Mapping Predicts Areas of True Functional MRI Activity. Scientific Reports, 2016, 6, 25295.	3.3	26
54	Radiomics and Radiogenomics in Breast Cancer. Breast Diseases, 2016, 27, 23-24.	0.0	1

#	Article	IF	Citations
55	Magnetic resonance imaging of swallowing-related structures in nasopharyngeal carcinoma patients receiving IMRT: Longitudinal doseâ€“response characterization of quantitative signal kinetics. Radiotherapy and Oncology, 2016, 118, 315-322.	0.6	21
56	Imaging of Liver Tumors Using Surface-Enhanced Raman Scattering Nanoparticles. ACS Nano, 2016, 10, 5015-5026.	14.6	139
57	Radiomics in Brain Tumors. Magnetic Resonance Imaging Clinics of North America, 2016, 24, 719-729.	1.1	73
58	Shedding Light on the 2016 World Health Organization Classification of Tumors of the Central Nervous System in the Era of Radiomics and Radiogenomics. Magnetic Resonance Imaging Clinics of North America, 2016, 24, 741-749.	1.1	13
59	Imaging Genomics in Glioblastoma Multiforme. Magnetic Resonance Imaging Clinics of North America, 2016, 24, 731-740.	1.1	7
60	Safety, Antitumor Activity, and Immune Activation of Pegylated Recombinant Human Interleukin-10 (AM0010) in Patients With Advanced Solid Tumors. Journal of Clinical Oncology, 2016, 34, 3562-3569.	1.6	175
61	New State-of-the-Art and Cutting-Edge Advances in Brain Tumor Imaging. Magnetic Resonance Imaging Clinics of North America, 2016, 24, xv-xvi.	1.1	0
62	A randomized phase II trial of standard dose bevacizumab versus low dose bevacizumab plus lomustine (CCNU) in adults with recurrent glioblastoma. Journal of Neuro-Oncology, 2016, 129, 487-494.	2.9	52
63	139â€ƒClinically Applicable and Biologically Validated MRI Radiomic Test Method Predicts Glioblastoma Genomic Landscape and Survival. Neurosurgery, 2016, 63, 156-157.	1.1	14
64	A combinatorial radiographic phenotype may stratify patient survival and be associated with invasion and proliferation characteristics in glioblastoma. Journal of Neurosurgery, 2016, 124, 1008-1017.	1.6	40
65	Diffusion Weighted Magnetic Resonance Imaging Radiophenotypes and Associated Molecular Pathways in Glioblastoma. Neurosurgery, 2016, 63, 127-135.	1.1	8
66	Assessing the Effects of Software Platforms on Volumetric Segmentation of Glioblastoma. Journal of Neuroimaging in Psychiatry & Neurology, 2016, 1, 64-72.	0.3	7
67	Intravoxel incoherent motion imaging kinetics during chemoradiotherapy for human papillomavirus-associated squamous cell carcinoma of the oropharynx: preliminary results from a prospective pilot study. NMR in Biomedicine, 2015, 28, 1645-1654.	2.8	51
68	Imaging Genomics in Gliomas. Cancer Journal (Sudbury, Mass), 2015, 21, 225-234.	2.0	22
69	Imaging Genomics of Glioblastoma. Topics in Magnetic Resonance Imaging, 2015, 24, 155-163.	1.2	14
70	NIMG-11RADIOMIC SUBCLASSIFICATION OF GLIOBLASTOMA. Neuro-Oncology, 2015, 17, v155.3-v155.	1.2	2
71	Mir-21â€“Sox2 Axis Delineates Glioblastoma Subtypes with Prognostic Impact. Journal of Neuroscience, 2015, 35, 15097-15112.	3.6	53
72	Shedding light on glioblastoma cellular heterogeneity. Neuro-Oncology, 2015, 17, 327-8.	1.2	2

#	Article	IF	Citations
73	Glioblastoma: Imaging Genomic Mapping Reveals Sex-specific Oncogenic Associations of Cell Death. Radiology, 2015, 275, 215-227.	7.3	64
74	Prospective observer and software-based assessment of magnetic resonance imaging quality in head and neck cancer: Should standard positioning and immobilization be required for radiation therapy applications?. Practical Radiation Oncology, 2015, 5, e299-e308.	2.1	31
75	Characteristics and kinetics of cervical lymph node regression after radiation therapy for human papillomavirus-associated oropharyngeal carcinoma: Quantitative image analysis of post-radiotherapy response. Oral Oncology, 2015, 51, 195-201.	1.5	13
76	Quality Assurance Assessment of Diagnostic and Radiation Therapyâ€“Simulation CT Image Registration for Head and Neck Radiation Therapy: Anatomic Region of Interestâ€“based Comparison of Rigid and Deformable Algorithms. Radiology, 2015, 274, 752-763.	7.3	58
77	Addition of MR imaging features and genetic biomarkers strengthens glioblastoma survival prediction in TCGA patients. Journal of Neuroradiology, 2015, 42, 212-221.	1.1	109
78	Successful Treatment of Intracranial Hemorrhage with Recombinant Activated Factor VII in a Patient with Newly Diagnosed Acute Myeloid Leukemia: A Case Report and Review of the Literature. Frontiers in Oncology, 2015, 5, 29.	2.8	3
79	Comprehensive, Integrative Genomic Analysis of Diffuse Lower-Grade Gliomas. New England Journal of Medicine, 2015, 372, 2481-2498.	27.0	2,582
80	Multicenter imaging outcomes study of The Cancer Genome Atlas glioblastoma patient cohort: imaging predictors of overall and progression-free survival. Neuro-Oncology, 2015, 17, 1525-1537.	1.2	75
81	Imaging Genomics ofÂGlioblastoma. Neuroimaging Clinics of North America, 2015, 25, 141-153.	1.0	37
82	Extraskeletal Myxoid Chondrosarcoma Presenting as an Intradural Spinal Mass: Report of a Rare Clinical Presentation with an Emphasis on Differential Diagnostic Considerations. Rare Tumors, 2014, 6, 150-153.	0.6	5
83	Quantitative texture analysis for Glioblastoma phenotypes discrimination. , 2014, , .		10
84	Survival analysis of pre-operative GBM patients by using quantitative image features. , 2014, , .		1
85	NCI Workshop Report: Clinical and Computational Requirements for Correlating Imaging Phenotypes with Genomics Signatures. Translational Oncology, 2014, 7, 556-569.	3.7	69
86	Beam path toxicity in candidate organs-at-risk: Assessment of radiation emetogenesis for patients receiving head and neck intensity modulated radiotherapy. Radiotherapy and Oncology, 2014, 111, 281-288.	0.6	54
87	Post-Treatment Imaging Changes in Primary Brain Tumors. Current Oncology Reports, 2014, 16, 397.	4.0	31
88	Outcome Prediction in Patients with Glioblastoma by Using Imaging, Clinical, and Genomic Biomarkers: Focus on the Nonenhancing Component of the Tumor. Radiology, 2014, 272, 484-493.	7.3	196
89	Imaging genomic mapping of an invasive MRI phenotype predicts patient outcome and metabolic dysfunction: a TCGA glioma phenotype research group project. BMC Medical Genomics, 2014, 7, 30.	1.5	60
90	Change in Postsurgical Cavity Size Within the First 30 Days Correlates With Extent of Surrounding Edema. Journal of Computer Assisted Tomography, 2014, 38, 457-460.	0.9	19

#	Article	IF	Citations
91	Genomic Mapping and Survival Prediction in Glioblastoma: Molecular Subclassification Strengthened by Hemodynamic Imaging Biomarkers. Radiology, 2013, 267, 212-220.	7.3	130
92	MR Imaging Predictors of Molecular Profile and Survival: Multi-institutional Study of the TCGA Glioblastoma Data Set. Radiology, 2013, 267, 560-569.	7.3	362
93	Imaging Genomic Mapping in Glioblastoma. Neurosurgery, 2013, 60, 126-130.	1.1	27
94	188â€ƒRadiogenomic Mapping of MRI-FLAIR-Phenotypes Identifies a Novel Gene-microRNA Regulatory Axis to Target Glioblastoma Invasion. Neurosurgery, 2012, 71, E573.	1.1	0
95	Manual Refinement System for Graph-Based Segmentation Results in the Medical Domain. Journal of Medical Systems, 2012, 36, 2829-2839.	3.6	40
96	A Novel Volume-Age-KPS (VAK) Glioblastoma Classification Identifies a Prognostic Cognate microRNA-Gene Signature. PLoS ONE, 2012, 7, e41522.	2.5	82
97	Comparison of wideband steadyâ€state free precession and T₂â€weighted fast spin echo in spine disorder assessment at 1.5 and 3 T. Magnetic Resonance in Medicine, 2012, 68, 1527-1535.	3.0	5
98	Radiogenomic Mapping of Edema/Cellular Invasion MRI-Phenotypes in Glioblastoma Multiforme. PLoS ONE, 2011, 6, e25451.	2.5	239
99	Lumbar artery pseudoaneurysm after percutaneous vertebroplasty: a unique vascular complication. Journal of Neurosurgery: Spine, 2011, 14, 296-299.	1.7	27
100	Magnetic resonance imaging appearance and changes on intracavitary Gliadel wafer placement: A pilot study. World Journal of Radiology, 2011, 3, 266.	1.1	24
101	Neurosurgical education in Europe and the United States of America. Neurosurgical Review, 2010, 33, 409-417.	2.4	32
102	Future Potential of MRI-Guided Focused Ultrasound Brain Surgery. Neuroimaging Clinics of North America, 2010, 20, 355-366.	1.0	23
103	Multimodality intraoperative MRI for brain tumor surgery. Expert Review of Neurotherapeutics, 2010, 10, 1545-1558.	2.8	18
104	Lymph node staging in esophageal adenocarcinoma with PET-CT based on a visual analysis and based on metabolic parameters. Abdominal Imaging, 2009, 34, 610-617.	2.0	15
105	Prediction of Metastatic Disease and Survival in Patients with Gastric and Gastroesophageal Junction Tumors. Academic Radiology, 2009, 16, 218-226.	2.5	15
106	Tumour length measured on PET-CT predicts the most appropriate stage-dependent therapeutic approach in oesophageal cancer. European Radiology, 2008, 18, 2833-2840.	4.5	18
107	Assessment of Treatment Response and Recurrence in Esophageal Carcinoma Based on Tumor Length and Standardized Uptake Value on Positron Emission Tomographyâ€“Computed Tomography. Annals of Thoracic Surgery, 2008, 86, 1131-1138.	1.3	45
108	Adenocarcinomas of the esophagus: Response to chemoradiotherapy is associated with decrease of metabolic tumor volume as measured on PETâ€“CT. Radiotherapy and Oncology, 2008, 89, 278-286.	0.6	110

#	Article	IF	Citations
109	Cardiac Valve Disease: Spectrum of Findings on Cardiac 64-MDCT. American Journal of Roentgenology, 2008, 190, W294-W303.	2.2	41
110	Visual PET/CT Scoring for Nonspecific ¹⁸F-FDG Uptake in the Differentiation of Early Malignant and Benign Esophageal Lesions. American Journal of Roentgenology, 2008, 191, 515-521.	2.2	28
111	Cryptococcal Pneumonia in an Immunocompetent Patient. American Journal of Roentgenology, 2007, 188, W281-W282.	2.2	4
112	Radiologic-Pathologic Conference of the Massachusetts General Hospital. American Journal of Roentgenology, 2007, 188, W15-W16.	2.2	16