Kevin M Koch

List of Publications by Year
in descending order

74 papers	4,485 citations	136740 32 h-index	102304 66 g-index
77 all docs	77 docs citations	77 times ranked	4537 citing authors

#	Article	IF	Citations
1	Phase I Safety, Pharmacokinetics, and Clinical Activity Study of Lapatinib (GW572016), a Reversible Dual Inhibitor of Epidermal Growth Factor Receptor Tyrosine Kinases, in Heavily Pretreated Patients With Metastatic Carcinomas. Journal of Clinical Oncology, 2005, 23, 5305-5313.	0.8	600
2	Metal-Induced Artifacts in MRI. American Journal of Roentgenology, 2011, 197, 547-555.	1.0	445
3	Study of the Biologic Effects of Lapatinib, a Reversible Inhibitor of ErbB1 and ErbB2 Tyrosine Kinases, on Tumor Growth and Survival Pathways in Patients With Advanced Malignancies. Journal of Clinical Oncology, 2005, 23, 2502-2512.	0.8	338
4	A multispectral threeâ€dimensional acquisition technique for imaging near metal implants. Magnetic Resonance in Medicine, 2009, 61, 381-390.	1.9	234
5	The Role of Efflux and Uptake Transporters inN-{3-Chloro-4-[(3-fluorobenzyl)oxy]phenyl}-6-[5-({[2-(methylsulfonyl)ethyl]amino}methyl)-2-furyl]-4-quinazolinamine (GW572016, Lapatinib) Disposition and Drug Interactions. Drug Metabolism and Disposition, 2008, 36, 695-701.	1.7	226
6	Imaging near metal with a MAVRICâ€SEMAC hybrid. Magnetic Resonance in Medicine, 2011, 65, 71-82.	1.9	189
7	MRI After Arthroplasty: Comparison of MAVRIC and Conventional Fast Spin-Echo Techniques. American Journal of Roentgenology, 2011, 197, W405-W411.	1.0	170
8	Resiliency and Vulnerability in the HER2-HER3 Tumorigenic Driver. Science Translational Medicine, 2010, 2, 16ra7.	5.8	154
9	Cerebral Blood Flow Alterations in Acute Sport-Related Concussion. Journal of Neurotrauma, 2016, 33, 1227-1236.	1.7	147
10	Magnetic resonance imaging near metal implants. Journal of Magnetic Resonance Imaging, 2010, 32, 773-787.	1.9	143
11	Rapid calculations of susceptibility-induced magnetostatic field perturbations forin vivomagnetic resonance. Physics in Medicine and Biology, 2006, 51, 6381-6402.	1.6	111
12	Human Metabolism of Lapatinib, a Dual Kinase Inhibitor: Implications for Hepatotoxicity. Drug Metabolism and Disposition, 2012, 40, 139-150.	1.7	85
13	A Phase I and Pharmacokinetic Study of Oral Lapatinib Administered Once or Twice Daily in Patients with Solid Malignancies. Clinical Cancer Research, 2009, 15, 6702-6708.	3.2	81
14	New MR imaging methods for metallic implants in the knee: Artifact correction and clinical impact. Journal of Magnetic Resonance Imaging, 2011, 33, 1121-1127.	1.9	76
15	Peripheral nerve diffusion tensor imaging: Overview, pitfalls, and future directions. Journal of Magnetic Resonance Imaging, 2018, 47, 1171-1189.	1.9	76
16	Dynamic shim updating on the human brain. Journal of Magnetic Resonance, 2006, 180, 286-296.	1.2	70
17	Phase I and Pharmacokinetic Study of Lapatinib and Docetaxel in Patients With Advanced Cancer. Journal of Clinical Oncology, 2008, 26, 3051-3056.	0.8	66
18	Increasing throughput of parallel on-line extraction liquid chromatography/electrospray ionization tandem mass spectrometry system for GLP quantitative bioanalysis in drug development. Rapid Communications in Mass Spectrometry, 2004, 18, 285-292.	0.7	65

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19	Magnetic Resonance Imaging Findings in Symptomatic Versus Asymptomatic Subjects Following Metal-on-Metal Hip Resurfacing Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2013, 95, 895-902.	1.4	65
20	Metal Artifact Reduction With MAVRIC SL at 3-T MRI in Patients With Hip Arthroplasty. American Journal of Roentgenology, 2015, 204, 140-147.	1.0	61
21	Acute White-Matter Abnormalities in Sports-Related Concussion: A Diffusion Tensor Imaging Study from the NCAA-DoD CARE Consortium. Journal of Neurotrauma, 2018, 35, 2653-2664.	1.7	61
22	Optimization of static magnetic field homogeneity in the human and animal brain in vivo. Progress in Nuclear Magnetic Resonance Spectroscopy, 2009, 54, 69-96.	3.9	59
23	Compressedâ€Sensing multispectral imaging of the postoperative spine. Journal of Magnetic Resonance Imaging, 2013, 37, 243-248.	1.9	54
24	Sample-specific diamagnetic and paramagnetic passive shimming. Journal of Magnetic Resonance, 2006, 182, 66-74.	1.2	52
25	Quantifying image distortion of orthopedic materials in magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2013, 38, 610-618.	1.9	47
26	Longitudinal white-matter abnormalities in sports-related concussion. Neurology, 2020, 95, e781-e792.	1.5	47
27	Cerebral blood flow in acute concussion: preliminary ASL findings from the NCAA-DoD CARE consortium. Brain Imaging and Behavior, 2019, 13, 1375-1385.	1.1	45
28	Phase I Pharmacokinetic Study of the Safety and Tolerability of Lapatinib (GW572016) in Combination with Oxaliplatin/Fluorouracil/Leucovorin (FOLFOX4) in Patients with Solid Tumors. Clinical Cancer Research, 2007, 13, 4495-4502.	3.2	44
29	Dynamically shimmed multivoxel1H magnetic resonance spectroscopy and multislice magnetic resonance spectroscopic imaging of the human brain. Magnetic Resonance in Medicine, 2007, 57, 587-591.	1.9	40
30	MR imaging near metal with undersampled 3D radial UTEâ€MAVRIC sequences. Magnetic Resonance in Medicine, 2013, 69, 27-36.	1.9	40
31	Resting-State fMRI Metrics in Acute Sport-Related Concussion and Their Association with Clinical Recovery: A Study from the NCAA-DOD CARE Consortium. Journal of Neurotrauma, 2020, 37, 152-162.	1.7	40
32	MR Imaging Near Metallic Implants Using MAVRIC SL. Academic Radiology, 2015, 22, 370-379.	1.3	37
33	Prevalence of Potentially Clinically Significant Magnetic Resonance Imaging Findings in Athletes with and without Sport-Related Concussion. Journal of Neurotrauma, 2019, 36, 1776-1785.	1.7	37
34	Imaging near orthopedic hardware. Journal of Magnetic Resonance Imaging, 2017, 46, 24-39.	1.9	36
35	Phase I Dose-Escalation Study of 5-Day Intermittent Oral Lapatinib Therapy in Patients With Human Epidermal Growth Factor Receptor 2â€“Overexpressing Breast Cancer. Journal of Clinical Oncology, 2014, 32, 1472-1479.	0.8	31
36	In vitro assessment of knee MRI in the presence of metal implants comparing MAVRIC-SL and conventional fast spin echo sequences at 1.5 and 3 T field strength. Journal of Magnetic Resonance Imaging, 2015, 41, 1291-1299.	1.9	29

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37	Imaging near metal: The impact of extreme static local field gradients on frequency encoding processes. Magnetic Resonance in Medicine, 2014, 71, 2024-2034.	1.9	28
38	Lapatinib Plasma and Tumor Concentrations and Effects on HER Receptor Phosphorylation in Tumor. PLoS ONE, 2015, 10, e0142845.	1.1	25
39	Metal artefact suppression at 3ÂT MRI: comparison of MAVRIC-SL with conventional fast spin echo sequences in patients with Hip joint arthroplasty. European Radiology, 2015, 25, 2403-2411.	2.3	24
40	Stability of MRI metrics in the advanced research core of the NCAA-DoD concussion assessment, research and education (CARE) consortium. Brain Imaging and Behavior, 2018, 12, 1121-1140.	1.1	22
41	Multispectral diffusionâ€weighted imaging near metal implants. Magnetic Resonance in Medicine, 2018, 79, 987-993.	1.9	19
42	Heating of Hip Arthroplasty Implants During Metal Artifact Reduction MRI at 1.5- and 3.0-T Field Strengths. Investigative Radiology, 2021, 56, 232-243.	3.5	19
43	External calibration of the spectral coverage for threeâ€dimensional multispectral MRI. Magnetic Resonance in Medicine, 2016, 76, 1494-1503.	1.9	18
44	Quantitative Susceptibility Mapping after Sports-Related Concussion. American Journal of Neuroradiology, 2018, 39, 1215-1221.	1.2	17
45	Analysis and Evaluation of a Deep Learning Reconstruction Approach with Denoising for Orthopedic MRI. Radiology: Artificial Intelligence, 2021, 3, e200278.	3.0	17
46	The Association Between Persistent White-Matter Abnormalities and Repeat Injury After Sport-Related Concussion. Frontiers in Neurology, 2019, 10, 1345.	1.1	16
47	Metal artifact suppression at the hip: diagnostic performance at 3.0ÂT versus 1.5 Tesla. Skeletal Radiology, 2015, 44, 1609-1616.	1.2	13
48	Quantifying metal-induced susceptibility artifacts of the instrumented spine at 1.5T using fast-spin echo and 3D-multispectral MRI. Journal of Magnetic Resonance Imaging, 2017, 45, 51-58.	1.9	12
49	Accelerating sequences in the presence of metal by exploiting the spatial distribution of offâ€resonance. Magnetic Resonance in Medicine, 2014, 72, 1658-1667.	1.9	11
50	Towards multiâ€modal data fusion for superâ€resolution and denoising of <scp>4Dâ€Flow MRI</scp>. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3381.	1.0	11
51	Metallic implant geometry and susceptibility estimation using multispectral B₀field maps. Magnetic Resonance in Medicine, 2017, 77, 2402-2413.	1.9	10
52	Subjectâ€specific models of susceptibilityâ€induced B₀ field variations in breast MRI. Journal of Magnetic Resonance Imaging, 2013, 37, 227-232.	1.9	9
53	Fully phaseâ€encoded MRI near metallic implants using ultrashort echo times and broadband excitation. Magnetic Resonance in Medicine, 2018, 79, 2156-2163.	1.9	9
54	Filtered Diffusion-Weighted MRI of the Human Cervical Spinal Cord: Feasibility and Application to Traumatic Spinal Cord Injury. American Journal of Neuroradiology, 2021, 42, 2101-2106.	1.2	9

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55	Flexible longitudinal magnetization contrast in spectrally overlapped 3D-MSI metal artifact reduction sequences: Technical considerations and clinical impact. Magnetic Resonance in Medicine, 2015, 74, 1349-1355.	1.9	8
56	Offâ€resonance based assessment of metallic wear debris near total hip arthroplasty. Magnetic Resonance in Medicine, 2018, 79, 1628-1637.	1.9	8
57	Acute Post-Concussive Assessments of Brain Tissue Magnetism Using Magnetic Resonance Imaging. Journal of Neurotrauma, 2021, 38, 848-857.	1.7	8
58	Cardiac functional magnetic resonance imaging at 7T: Image quality optimization and ultra-high field capabilities. World Journal of Radiology, 2020, 12, 231-246.	0.5	8
59	A Phase II Biomarker-Embedded Study of Lapatinib plus Capecitabine as First-line Therapy in Patients with Advanced or Metastatic Gastric Cancer. Molecular Cancer Therapeutics, 2016, 15, 2251-2258.	1.9	6
60	3Dâ€multiâ€spectral T 2 mapping near metal implants. Magnetic Resonance in Medicine, 2019, 82, 614-621.	1.9	6
61	Association of Head Impact Exposure with White Matter Macrostructure and Microstructure Metrics. Journal of Neurotrauma, 2021, 38, 474-484.	1.7	6
62	Value CMR: Towards a Comprehensive, Rapid, Cost-Effective Cardiovascular Magnetic Resonance Imaging. International Journal of Biomedical Imaging, 2021, 2021, 1-12.	3.0	6
63	Splitâ€slice training and hyperparameter tuning of RAKI networks for simultaneous multiâ€slice reconstruction. Magnetic Resonance in Medicine, 2021, 85, 3272-3280.	1.9	6
64	Wavelet Domain Radiofrequency Pulse Design Applied to Magnetic Resonance Imaging. PLoS ONE, 2015, 10, e0141151.	1.1	4
65	The effects of lapatinib on CYP3A metabolism of midazolam in patients with advanced cancer. Cancer Chemotherapy and Pharmacology, 2017, 80, 1141-1146.	1.1	4
66	Multispectral diffusion-weighted MRI of the instrumented cervical spinal cord: a preliminary study of 5 cases. European Spine Journal, 2020, 29, 1071-1077.	1.0	4
67	Multivariate use of MRI biomarkers to classify histologically confirmed necrosis in symptomatic total hip arthroplasty. Journal of Orthopaedic Research, 2020, 38, 1506-1514.	1.2	4
68	Optimization of hyperparameters for SMS reconstruction. Magnetic Resonance Imaging, 2020, 73, 91-103.	1.0	3
69	Clinical Feasibility of Multi-Acquisition Variable-Resonance Image Combinationâ€“Based T2 Mapping near Hip Arthroplasty. HSS Journal, 2021, 17, 165-173.	0.7	3
70	Architectural Distortion on Screening Digital Breast Tomosynthesis: Pathologic Outcomes and Indicators of Malignancy. Journal of Breast Imaging, 2021, 3, 34-43.	0.5	3
71	Diffusion propagator metrics are biased when simultaneous multi-slice acceleration is used. Magnetic Resonance Imaging, 2022, 86, 46-54.	1.0	3
72	Dynamic tracking of scaphoid, lunate, and capitate carpal bones using four-dimensional MRI. PLoS ONE, 2022, 17, e0269336.	1.1	3

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73	Quantitative correlation of lumbar foraminal stenosis with local morphological metrics. European Spine Journal, 2021, 30, 3319-3323.	1.0	2
74	Deep Gated Convolutional Neural Network for QSM Background Field Removal. Lecture Notes in Computer Science, 2019, , 83-91.	1.0	0