R Grant Steen

List of Publications by Year
in descending order

76 papers	5,774 citations	117625 34 h-index	76900 74 g-index
83 all docs	83 docs citations	83 times ranked	6170 citing authors

#	Article	IF	Citations
1	Comment on: Burden of central nervous system complications in sickle cell disease: A systematic review and metaâ€analysis. Pediatric Blood and Cancer, 2022, 69, e29604.	1.5	0
2	Serious adverse events and 30-day hospital readmission rate following elective total knee arthroplasty: a systematic review and meta-analysis. Journal of Orthopaedic Surgery and Research, 2021, 16, 236.	2.3	6
3	Letter to the Editor on â€œIatrogenic Peroneal Nerve Palsy Rates Secondary to Open Reduction Internal Fixation for Tibial Plateau Fractures Using an Intraoperative Distractorâ€• Journal of Orthopaedic Trauma, 2020, 34, e466-e467.	1.4	0
4	Delayed Healing in Metatarsal Fractures: Role of Low-Intensity Pulsed Ultrasound Treatment. Journal of Foot and Ankle Surgery, 2019, 58, 1145-1151.	1.0	2
5	Nonunion and Reoperation After Internal Fixation of Proximal Femur Fractures: A Systematic Review. Orthopedics, 2019, 42, e162-e171.	1.1	0
6	Healing, nonunion, and re-operation after internal fixation of diaphyseal and distal femoral fractures: a systematic review and meta-analysis. International Orthopaedics, 2018, 42, 2675-2683.	1.9	72
7	Patient-Reported Outcome Measures in Perspective. Orthopedics, 2018, 41, 10-11.	1.1	2
8	Risk factors for nonunion of bone fracture in pediatric patients. Medicine (United States), 2018, 97, e11691.	1.0	31
9	Opioid exposure is associated with nonunion risk in a traumatically injured population: An inception cohort study. Injury, 2018, 49, 1266-1271.	1.7	26
10	When Is a Fracture Not â€œFreshâ€? Aligning Reimbursement With Patient Outcome After Treatment With Low-Intensity Pulsed Ultrasound. Journal of Orthopaedic Trauma, 2017, 31, 248-251.	1.4	15
11	Healing of fracture nonunions treated with low-intensity pulsed ultrasound (LIPUS): A systematic review and meta-analysis. Injury, 2017, 48, 1339-1347.	1.7	114
12	An inception cohort analysis to predict nonunion in tibia and 17 other fracture locations. Injury, 2017, 48, 1194-1203.	1.7	13
13	Letter to the Editor in response to Drs. Safiri and Ayubi. Bone, 2017, 105, 309.	2.9	0
14	Bone fracture nonunion rate decreases with increasing age: A prospective inception cohort study. Bone, 2017, 95, 26-32.	2.9	70
15	Epidemiology of Fracture Nonunion in 18 Human Bones. JAMA Surgery, 2016, 151, e162775.	4.3	426
16	Heal rate of metatarsal fractures: A propensity-matching study of patients treated with low-intensity pulsed ultrasound (LIPUS) vs. surgical and other treatments. Injury, 2016, 47, 2584-2590.	1.7	27
17	Letter to the Editor re: Biglari et al. (2016). Archives of Orthopaedic and Trauma Surgery, 2016, 136, 1629-1630.	2.4	0
18	Biological Risk Factors for Nonunion of Bone Fracture. JBJS Reviews, 2016, 4, .	2.0	120

#	Article	IF	Citations
19	Hyaluronic Acid Injections Are Associated with Delay of Total Knee Replacement Surgery in Patients with Knee Osteoarthritis: Evidence from a Large U.S. Health Claims Database. PLoS ONE, 2015, 10, e0145776.	2.5	103
20	Comparison of two hyaluronic acid formulations for safety and efficacy (CHASE) study in knee osteoarthritis: a multicenter, randomized, double-blind, 26-week non-inferiority trial comparing Durolane to Artz. Arthritis Research and Therapy, 2015, 17, 51.	3.5	50
21	A cohort study of 4,190 patients treated with low-intensity pulsed ultrasound (LIPUS): findings in the elderly versus all patients. BMC Musculoskeletal Disorders, 2015, 16, 45.	1.9	45
22	Low-intensity pulsed ultrasound (LIPUS) can decrease the economic burden of fracture non-union. Journal of Medical Economics, 2015, 18, 542-549.	2.1	19
23	Treatment of chronic (>1 year) fracture nonunion: Heal rate in a cohort of 767 patients treated with low-intensity pulsed ultrasound (LIPUS). Injury, 2015, 46, 2036-2041.	1.7	81
24	Prothrombin Time and Activated Partial Thromboplastin Time Testing: A Comparative Effectiveness Study in a Million-Patient Sample. PLoS ONE, 2015, 10, e0133317.	2.5	29
25	Financial costs and personal consequences of research misconduct resulting in retracted publications. ELife, 2014, 3, e02956.	6.0	122
26	The Demographics of Deception: What Motivates Authors Who Engage in Misconduct?. Publications, 2014, 2, 44-50.	3.8	0
27	A Case-Control Comparison of Retracted and Non-Retracted Clinical Trials: Can Retraction Be Predicted?. Publications, 2014, 2, 27-37.	3.8	2
28	Sources of error in the retracted scientific literature. FASEB Journal, 2014, 28, 3847-3855.	0.5	65
29	Evaluating the evidence for evidenceâ€based medicine: are randomized clinical trials less flawed than other forms of peerâ€reviewed medical research?. FASEB Journal, 2013, 27, 3430-3436.	0.5	10
30	Why Has the Number of Scientific Retractions Increased?. PLoS ONE, 2013, 8, e68397.	2.5	266
31	Writing for publication in a medical journal. Indian Journal of Endocrinology and Metabolism, 2012, 16, 899.	0.4	6
32	Misconduct accounts for the majority of retracted scientific publications. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17028-17033.	7.1	838
33	Misinformation in the medical literature: What role do error and fraud play?. Journal of Medical Ethics, 2011, 37, 498-503.	1.8	32
34	Brain volumes in psychotic youth with schizophrenia and mood disorders. Journal of Psychiatry and Neuroscience, 2010, 35, 229-236.	2.4	22
35	Joint Brain Parametric -Map Segmentation and RF Inhomogeneity Calibration. International Journal of Biomedical Imaging, 2009, 2009, 1-14.	3.9	5
36	Human Intelligence and Medical Illness. Plenum Series on Human Exceptionality, 2009, , .	2.0	10

#	Article	IF	Citations
37	Stressing About Posttraumatic Stress Disorder. Pediatrics, 2007, 120, 232-234.	2.1	1
38	Single-voxel1H PRESS at 4.0â€‰T: precision and variability of measurements in anterior cingulate and hippocampus. NMR in Biomedicine, 2006, 19, 484-491.	2.8	35
39	Brain volume in first-episode schizophrenia. British Journal of Psychiatry, 2006, 188, 510-518.	2.8	785
40	Neuroimaging-detected late transient treatment-induced lesions in pediatric patients with brain tumors. Journal of Neurosurgery, 2005, 102, 179-186.	1.6	17
41	Cognitive Deficits in Children With Sickle Cell Disease. Journal of Child Neurology, 2005, 20, 102-107.	1.4	102
42	Measurement of Brain Metabolites by 1H Magnetic Resonance Spectroscopy in Patients with Schizophrenia: A Systematic Review and Meta-Analysis. Neuropsychopharmacology, 2005, 30, 1949-1962.	5.4	246
43	Brain volume in pediatric patients with sickle cell disease: evidence of volumetric growth delay?. American Journal of Neuroradiology, 2005, 26, 455-62.	2.4	27
44	Abnormally high levels of brain N-acetylaspartate in children with sickle cell disease. American Journal of Neuroradiology, 2005, 26, 463-8.	2.4	17
45	Direct comparison of two methods to measure T1: in vitro and in vivo values by echo-planar imaging and by segmented k-space imaging. Magnetic Resonance Imaging, 2004, 22, 291-298.	1.8	5
46	Brain T1 in young children with sickle cell disease: evidence of early abnormalities in brain development. Magnetic Resonance Imaging, 2004, 22, 299-306.	1.8	21
47	Brain injury in children with sickle cell disease: Prevalence and etiology. Annals of Neurology, 2003, 54, 564-572.	5.3	49
48	Age-related changes in the pediatric brain: proton T1 in healthy children and in children with sickle cell disease. Magnetic Resonance Imaging, 2003, 21, 9-15.	1.8	22
49	Prospective Brain Imaging Evaluation of Children with Sickle Cell Trait: Initial Observations. Radiology, 2003, 228, 208-215.	7.3	30
50	Brain Imaging Findings in Pediatric Patients with Sickle Cell Disease. Radiology, 2003, 228, 216-225.	7.3	144
51	Cognitive impairment in children with hemoglobin SS sickle cell disease: relationship to MR imaging findings and hematocrit. American Journal of Neuroradiology, 2003, 24, 382-9.	2.4	99
52	Kindergarten Readiness Skills in Children With Sickle Cell Disease: Evidence of Early Neurocognitive Damage?. Journal of Child Neurology, 2002, 17, 111-116.	1.4	35
53	Effect of therapeutic ionizing radiation on the human brain. Annals of Neurology, 2001, 50, 787-795.	5.3	46
54	Improved cerebrovascular patency following therapy in patients with sickle cell disease: Initial results in 4 patients who received HLA-identical hematopoietic stem cell allografts. Annals of Neurology, 2001, 49, 222-229.	5.3	41

#	Article	IF	Citations
55	Subtle brain abnormalities in children with sickle cell disease: Relationship to blood hematocrit. Annals of Neurology, 1999, 45, 279-286.	5.3	94
56	Age-related changes in BrainT1 are correlated with iron concentration. Magnetic Resonance in Medicine, 1998, 40, 749-753.	3.0	101
57	Quantitative MRI of the brain in children with sickle cell disease reveals abnormalities unseen by conventional MRI. Journal of Magnetic Resonance Imaging, 1998, 8, 535-543.	3.4	54
58	Ectasia of the basilar artery in children with sickle cell disease: Relationship to hematocrit and psychometric measures. Journal of Stroke and Cerebrovascular Diseases, 1998, 7, 32-43.	1.6	35
59	Evidence of cranial artery ectasia in sickle cell disease patients with ectasia of the basilar artery. Journal of Stroke and Cerebrovascular Diseases, 1998, 7, 330-338.	1.6	17
60	Fat-saturated contrast-enhanced T1-weighted MRI in evaluation of osteosarcoma and ewing sarcoma. Journal of Magnetic Resonance Imaging, 1997, 7, 585-589.	3.4	43
61	Quantitative MR imaging of children with sickle cell disease: Striking T1 elevation in the thalamus. Journal of Magnetic Resonance Imaging, 1996, 6, 226-234.	3.4	9
62	Statistical error mapping for reliable quantitative T1 imaging. Journal of Magnetic Resonance Imaging, 1996, 6, 244-249.	3.4	29
63	Age-related changes in proton T1 values of normal human brain. Journal of Magnetic Resonance Imaging, 1995, 5, 43-48.	3.4	65
64	In vivo measurement of tumor blood oxygenation by near-infrared spectroscopy: Immediate effects of pentobarbital overdose or carmustine treatment. Journal of Neuro-Oncology, 1994, 22, 209-220.	2.9	18
65	Discrete signal processing of dynamic contrast-enhanced MR imaging: Statistical validation and preliminary clinical application. Journal of Magnetic Resonance Imaging, 1994, 4, 397-404.	3.4	31
66	Precise and accurate measurement of proton T1 in human brain in vivo: Validation and preliminary clinical application. Journal of Magnetic Resonance Imaging, 1994, 4, 681-691.	3.4	87
67	Relationship of perfusion to edema in the 9L gliosarcoma. Journal of Neuro-Oncology, 1993, 16, 81-87.	2.9	5
68	In vivo phosphorus NMR spectroscopy of skin using a crossover surface coil. Magnetic Resonance in Medicine, 1992, 23, 46-54.	3.0	18
69	31P magnetic resonance spectroscopy is sensitive to tumor hypoxia: Perfusion and oxygenation of rat 9L gliosarcoma after treatment with BCNU. NMR in Biomedicine, 1991, 4, 117-124.	2.8	23
70	In vivo31P nuclear magnetic resonance spectroscopy of rat 9l gliosarcoma treated with BCNU: Dose response of spectral changes. Magnetic Resonance in Medicine, 1989, 11, 258-266.	3.0	18
71	31P NMR spectroscopic and near infrared spectrophotometric studies of effects of anesthetics onIn vivo RIF-1 tumors. relationship to tumor radiosensitivity. NMR in Biomedicine, 1989, 2, 87-92.	2.8	24
72	31P NMR spectroscopic study of bioenergetic changes in radiation-induced fibrosarcoma-1 after radiation therapy. NMR in Biomedicine, 1989, 2, 165-171.	2.8	29

#	Article	IF	Citations
73	EVIDENCE FOR HETEROTROPHY BY ZOOXANTHELLAE IN SYMBIOSIS WITHAIPTASIA PULCHELLA. Biological Bulletin, 1986, 170, 267-278.	1.8	63
74	Impact of symbiotic algae on sea anemone metabolism: Analysis by in vivo31P nuclear magnetic resonance spectroscopy. The Journal of Experimental Zoology, 1986, 240, 315-325.	1.4	14
75	DAILY BUDGETS OF PHOTOSYNTHETICALLY FIXED CARBON IN SYMBIOTIC ZOANTHIDS. Biological Bulletin, 1984, 167, 477-487.	1.8	34
76	Comment on: Burden of central nervous system complications in sickle cell disease: A systematic review and meta-analysis. , 0, , .		0