Ranjan Gupta

List of Publications by Year
in descending order

70	2,205	27	45
papers	citations	h-index	g-index
		201674	233421

71	71	71	2416
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chronic nerve compression induces concurrent apoptosis and proliferation of Schwann cells. Journal of Comparative Neurology, 2003, 461, 174-186.	1.6	155
2	Development of Fatty Atrophy After Neurologic and Rotator Cuff Injuries in an Animal Model of Rotator Cuff Pathology. Journal of Bone and Joint Surgery - Series A, 2010, 92, 2270-2278.	3.0	121
3	Chronic nerve compression induces local demyelination and remyelination in a rat model of carpal tunnel syndrome. Experimental Neurology, 2004, 187, 500-508.	4.1	110
4	Nerve Allografts and Conduits in Peripheral Nerve Repair. Hand Clinics, 2013, 29, 331-348.	1.0	97
5	Functional assessment after sciatic nerve injury in a rat model. Microsurgery, 2009, 29, 644-649.	1.3	85
6	Compressive Neuropathies of the Upper Extremity: Update on Pathophysiology, Classification, and Electrodiagnostic Findings. Journal of Hand Surgery, 2010, 35, 668-677.	1.6	76
7	Transplantation of Schwann cells in a collagen tube for the repair of large, segmental peripheral nerve defects in rats. Journal of Neurosurgery, 2013, 119, 720-732.	1.6	71
8	Surgical repair in humans after traumatic nerve injury provides limited functional neural regeneration in adults. Experimental Neurology, 2017, 290, 106-114.	4.1	67
9	Advances in the Management of Spinal Cord Injury. Journal of the American Academy of Orthopaedic Surgeons, The, 2010, 18, 210-222.	2.5	64
10	Shear stress alters the expression of myelin-associated glycoprotein (MAG) and myelin basic protein (MBP) in Schwann cells. Journal of Orthopaedic Research, 2005, 23, 1232-1239.	2.3	63
11	Contributions of the different rabbit models to our understanding of rotator cuff pathology. Journal of Shoulder and Elbow Surgery, 2007, 16, S149-S157.	2.6	61
12	Chronic nerve compression injury induces a phenotypic switch of neurons within the dorsal root ganglia. Journal of Comparative Neurology, 2008, 506, 180-193.	1.6	60
13	Understanding the mechanisms of entrapment neuropathies. Neurosurgical Focus, 2009, 26, E7.	2.3	60
14	Mechanisms of fatty degeneration in massive rotator cuff tears. Journal of Shoulder and Elbow Surgery, 2012, 21, 175-180.	2.6	60
15	Biomechanical comparison of single-row, double-row, and transosseous-equivalent repair techniques after healing in an animal rotator cuff tear model. Journal of Orthopaedic Research, 2013, 31, 1254-1260.	2.3	57
16	Local down-regulation of myelin-associated glycoprotein permits axonal sprouting with chronic nerve compression injury. Experimental Neurology, 2006, 200, 418-429.	4.1	54
17	Schwann cells upregulate vascular endothelial growth factor secondary to chronic nerve compression injury. Muscle and Nerve, 2005, 31, 452-460.	2.2	52
18	Chronic nerve compression alters schwann cell myelin architecture in a murine model. Muscle and Nerve, 2012, 45, 231-241.	2.2	50

#	Article	IF	Citations
19	A Cost-Effective Junior Resident Training and Assessment Simulator for Orthopaedic Surgical Skills via Fundamentals of Orthopaedic Surgery. Journal of Bone and Joint Surgery - Series A, 2015, 97, 659-666.	3.0	49
20	Development of a new model for rotator cuff pathology: the rabbit subscapularis muscle. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 80, 97-103.	3.3	48
21	Matrix metalloproteinase 3 deletion preserves denervated motor endplates after traumatic nerve injury. Annals of Neurology, 2013, 73, 210-223.	5.3	47
22	Total joint Perioperative Surgical Home: an observational financial review. Perioperative Medicine (London, England), 2014, 3, 6.	1.5	46
23	Macrophage depletion alters the bloodâ€"nerve barrier without affecting Schwann cell function after neural injury. Journal of Neuroscience Research, 2007, 85, 766-777.	2.9	41
24	Limb Salvage With Major Nerve Injury: Current Management and Future Directions. Journal of the American Academy of Orthopaedic Surgeons, The, 2011, 19, S28-S34.	2.5	40
25	Early Surgical Decompression Restores Neurovascular Blood Flow and Ischemic Parameters in an in Vivo Animal Model of Nerve Compression Injury. Journal of Bone and Joint Surgery - Series A, 2014, 96, 897-906.	3.0	29
26	Optimization of Schwann Cell Adhesion in Response to Shear Stress in an in Vitro Model for Peripheral Nerve Tissue Engineering. Tissue Engineering, 2003, 9, 233-241.	4.6	28
27	Understanding the Biology of Compressive Neuropathies. Clinical Orthopaedics and Related Research, 2005, &NA;, 251-260.	1.5	28
28	Construct Validity for a Cost-effective Arthroscopic Surgery Simulator for Resident Education. Journal of the American Academy of Orthopaedic Surgeons, The, 2016, 24, 886-894.	2.5	27
29	Macrophage Recruitment Follows the Pattern of Inducible Nitric Oxide Synthase Expression in a Model for Carpal Tunnel Syndrome. Journal of Neurotrauma, 2003, 20, 671-680.	3.4	26
30	Resection of glial scar following spinal cord injury. Journal of Orthopaedic Research, 2009, 27, 931-936.	2.3	25
31	Evaluation of an acute nerve compression injury with magnetic resonance neurography. Journal of Hand Surgery, 2001, 26, 1093-1099.	1.6	23
32	Spatiotemporal Pattern of Macrophage Recruitment after Chronic Nerve Compression Injury. Journal of Neurotrauma, 2006, 23, 216-226.	3.4	22
33	The effect of long and short head biceps loading on glenohumeral joint rotational range of motion and humeral head position. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 1979-1987.	4.2	22
34	The role of pectoralis major and latissimus dorsi muscles in a biomechanical model of massive rotator cuff tear. Journal of Shoulder and Elbow Surgery, 2014, 23, 1136-1142.	2.6	21
35	Transplantation of Preconditioned Schwann Cells in Peripheral Nerve Grafts After Contusion in the Adult Spinal Cord. Journal of Bone and Joint Surgery - Series A, 2006, 88, 2400-2410.	3.0	19
36	Transplantation of Preconditioned Schwann Cells Following Hemisection Spinal Cord Injury. Spine, 2007, 32, 943-949.	2.0	19

#	Article	IF	Citations
37	An In-Vitro Traumatic Model To Evaluate the Response of Myelinated Cultures to Sustained Hydrostatic Compression Injury. Journal of Neurotrauma, 2009, 26, 2245-2256.	3.4	19
38	Human motor endplate remodeling after traumatic nerve injury. Journal of Neurosurgery, 2020, 135, 220-227.	1.6	19
39	Subtotal Medial Epicondylectomy as a Surgical Option for Treatment of Cubital Tunnel Syndrome. Techniques in Hand and Upper Extremity Surgery, 2005, 9, 52-59.	0.6	18
40	Peripheral nerve repair: a review. Current Opinion in Orthopaedics, 2004, 15, 215-219.	0.3	17
41	Desert hedgehog is a mediator of demyelination in compression neuropathies. Experimental Neurology, 2015, 271, 84-94.	4.1	17
42	The effect of shear stress on fibroblasts derived from Dupuytren's tissue and normal palmar fascia. Journal of Hand Surgery, 1998, 23, 945-950.	1.6	16
43	Demyelination secondary to chronic nerve compression injury alters Schmidt-Lanterman incisures. Journal of Anatomy, 2006, 209, 111-118.	1.5	16
44	c-Jun, krox-20, and integrin Î²4 expression following chronic nerve compression injury. Neuroscience Letters, 2009, 465, 194-198.	2.1	15
45	Current surgical techniques of peripheral nerve repair. Operative Techniques in Orthopaedics, 2004, 14, 163-170.	0.1	14
46	Neuromuscular junction integrity after chronic nerve compression injury. Journal of Orthopaedic Research, 2009, 27, 114-119.	2.3	14
47	Biophysical stimulation induces demyelination via an integrinâ€dependent mechanism. Annals of Neurology, 2012, 72, 112-123.	5.3	14
48	The Role of Neurodiagnostic Studies in Nerve Injuries and Other Orthopedic Disorders. Journal of Hand Surgery, 2007, 32, 1280-1290.	1.6	13
49	A Call to Arms: Emergency Hand and Upper-Extremity Operations During the COVID-19 Pandemic. Journal of Hand Surgery Global Online, 2020, 2, 175-181.	0.8	13
50	Nerve compression activates selective nociceptive pathways and upregulates peripheral sodium channel expression in Schwann cells. Journal of Orthopaedic Research, 2010, 28, 753-761.	2.3	12
51	Proximal Interphalangeal Joint Fusion. Hand Clinics, 2018, 34, 177-184.	1.0	11
52	Attenuation of Robust Glial Scar Formation Facilitates Functional Recovery in Animal Models of Chronic Nerve Compression Injury. Journal of Bone and Joint Surgery - Series A, 2017, 99, e132.	3.0	10
53	Topical Tranexamic Acid Does Not Affect Electrophysiologic or Neurovascular Sciatic Nerve Markers in an Animal Model. Clinical Orthopaedics and Related Research, 2015, 473, 1074-1082.	1.5	8
54	Establishing validity of the fundamentals of spinal surgery (FOSS) simulator as a teaching tool for orthopedic and neurosurgical trainees. Spine Journal, 2020, 20, 580-589.	1.3	7

#	Article	IF	Citations
55	Understanding and Treating Iatrogenic Nerve Injuries in Shoulder Surgery. Journal of the American Academy of Orthopaedic Surgeons, The, 2020, 28, e185-e192.	2.5	6
56	Examination of the human motor endplate after brachial plexus injury with twoâ€photon microscopy. Muscle and Nerve, 2020, 61, 390-395.	2.2	6
57	Lessons From Leprosy: Peripheral Neuropathies and Deformities in Chronic Demyelinating Diseases. Journal of Hand Surgery, 2019, 44, 411-415.	1.6	5
58	The anatomy and biochemistry of myelin and myelination. Operative Techniques in Orthopaedics, 2004, 14, 146-152.	0.1	4
59	Pharmacological Attenuation of Electrical Effects in a Model of Compression Neuropathy. Journal of Bone and Joint Surgery - Series A, 2019, 101, 523-530.	3.0	4
60	A Novel Method of Skeletal Fixation in an Above-Elbow Replantation: The Dowel Pin Technique. Plastic and Reconstructive Surgery, 2003, 111, 2349-2352.	1.4	1
61	Commentary on Kemp et al. (2011): Dose and duration of nerve growth factor (NGF) administration determine the extent of behavioral recovery following peripheral nerve injury in the rat. Experimental Neurology, 2012, 234, 5-7.	4.1	1
62	Biologic Augmentation in Peripheral Nerve Repair. , 2019, , 141-163.		1
63	Basic Science of Peripheral Nerve Injury and Repair. , 2011, , 591-600.e3.		1
64	The 2013 American-British-Canadian Traveling Fellowship: Innovation, Accountability, and Insight. Journal of Bone and Joint Surgery - Series A, 2014, 96, e66.	3.0	0
65	Targeting the Wnt/ÃŸ-Catenin Signaling Pathway After Traumatic Nerve Injury to Improve Functional Recovery. Journal of Hand Surgery, 2014, 39, e13-e14.	1.6	0
66	Neuroprotective Potential of Erythropoietin as an Adjuvant to Decompression for Chronic Compression Neuropathy. Journal of Hand Surgery, 2015, 40, e36-e37.	1.6	0
67	Erythropoietin is Neuroprotective During Ongoing Compression and Speeds Recovery Following Surgical Decompression in a Murine Model of Chronic Compression Neuropathy. Journal of Hand Surgery, 2016, 41, S48-S49.	1.6	0
68	Authors' Response to Letter to the Editor. Spine Journal, 2020, 20, 1524.	1.3	0
69	TRANSPLANTATION OF PRECONDITIONED SCHWANN CELLS IN PERIPHERAL NERVE GRAFTS AFTER CONTUSION IN THE ADULT SPINAL CORD. Journal of Bone and Joint Surgery - Series A, 2006, 88, 2400-2410.	3.0	0
70	Reoperative Options for Compressive Neuropathies of the Upper Extremity. , 2012, , 227-242.		0