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List of Publications by Year
in descending order

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63 papers	1,298 citations	304368 22 h-index	377514 34 g-index
64 all docs	64 docs citations	64 times ranked	1500 citing authors

#	Article	IF	Citations
1	Responsible, Safe, and Effective Prescription of Opioids for Chronic Non-Cancer Pain: American Society of Interventional Pain Physicians (ASIPP) Guidelines. Pain Physician, 2017, 20, S3-S92.	0.3	116
2	Leishmania tarentolae: Utility as an in vitro model for screening of antileishmanial agents. Experimental Parasitology, 2010, 126, 471-475.	0.5	67
3	In Vitro and In Vivo Studies of the Utility of Dimethyl and Diethyl Carbaporphyrin Ketals in Treatment of Cutaneous Leishmaniasis. Antimicrobial Agents and Chemotherapy, 2011, 55, 4755-4764.	1.4	67
4	Carbaporphyrin ketals as potential agents for a new photodynamic therapy treatment of leishmaniasis. Bioorganic and Medicinal Chemistry, 2008, 16, 7033-7038.	1.4	53
5	Sustainable conversion of coffee and other crop wastes to biofuels and bioproducts using coupled biochemical and thermochemical processes in a multi-stage biorefinery concept. Applied Microbiology and Biotechnology, 2014, 98, 8413-8431.	1.7	52
6	Modulation of neuroglial interactions using differential target multiplexed spinal cord stimulation in an animal model of neuropathic pain. Molecular Pain, 2020, 16, 174480692091805.	1.0	52
7	Development of a Novel Formulation with Hypericin To Treat Cutaneous Leishmaniasis Based on Photodynamic Therapy inIn VitroandIn VivoStudies. Antimicrobial Agents and Chemotherapy, 2015, 59, 5804-5813.	1.4	51
8	Genomics of the Effect of Spinal Cord Stimulation on an Animal Model of Neuropathic Pain. Neuromodulation, 2016, 19, 576-586.	0.4	48
9	Synthesis and Study of Hexanuclear Molybdenum Clusters Containing Thiolate Ligands. Inorganic Chemistry, 2008, 47, 7271-7278.	1.9	46
10	Association of Acenaphthoporphyrins with Liposomes for the Photodynamic Treatment of Leishmaniasis. Photochemistry and Photobiology, 2010, 86, 645-652.	1.3	42
11	Bonding Interactions in Olefin (C2X4, X = H, F, Cl, Br, I, CN) Iron Tetracarbonyl Complexes:Â Role of the Deformation Energy in Bonding and Reactivity. Journal of Physical Chemistry A, 2001, 105, 8077-8085.	1.1	38
12	Luminescent Properties of Hexanuclear Molybdenum(II) Chloride Clusters Containing Thiolate Ligands. Journal of Cluster Science, 2009, 20, 105-112.	1.7	35
13	Substitution of the Terminal Chloride Ligands of [Re₆S₈Cl₆]^{4â^'}with Triethylphosphine: Photophysical and Electrochemical Properties of a New Series of [Re₆S₈]²⁺Based Clusters. Inorganic Chemistry, 2010, 49, 11386-11394.	1.9	35
14	Glia to neuron ratio in the posterior aspect of the human spinal cord at thoracic segments relevant to spinal cord stimulation. Journal of Anatomy, 2019, 235, 997-1006.	0.9	33
15	Spinal cord stimulation using differential target multiplexed programming modulates neural cell-specific transcriptomes in an animal model of neuropathic pain. Molecular Pain, 2020, 16, 174480692096436.	1.0	30
16	Bond Energies and Bonding Interactions in Fe(CO)5-n(N2)n(n= 0â^'5) and Cr(CO)6-n(N2)n(n= 0â^'6) Complexes:Â Density Functional Theory Calculations and Comparisons to Experimental Data. Journal of Physical Chemistry A, 2001, 105, 3773-3787.	1.1	28
17	Density Functional Theory Study of Fe(CO)3(Î·2-C3H6), HFe(CO)3(Î·3-C3H5), and the Ironâ^'Allyl Bond Energy. Organometallics, 2003, 22, 2652-2659.	1.1	28
18	An Ex Vivo Comparison of Cooled-Radiofrequency and Bipolar-Radiofrequency Lesion Size and the Effect of Injected Fluids. Regional Anesthesia and Pain Medicine, 2014, 39, 312-321.	1.1	27

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19	Density Functional Study of Fe(CO)3 and Fe(CO)3(L) with H2 and C2H4, where L = H2 or C2H4:â€‰ Reactions Relevant to Olefin Hydrogenation. Organometallics, 2005, 24, 4714-4720.	1.1	25
20	New Application for Expanded Porphyrins: Sapphyrin and Heterosapphyrins as Inhibitors of Leishmania Parasites. Photochemistry and Photobiology, 2012, 88, 194-200.	1.3	25
21	Spinal Cord Stimulation Modulates Gene Expression in the Spinal Cord of an Animal Model of Peripheral Nerve Injury. Regional Anesthesia and Pain Medicine, 2016, 41, 750-756.	1.1	25
22	Modulation of microglial activation states by spinal cord stimulation in an animal model of neuropathic pain: Comparing high rate, low rate, and differential target multiplexed programming. Molecular Pain, 2021, 17, 174480692199901.	1.0	24
23	Clinical Effectiveness and Mechanism of Action of Spinal Cord Stimulation for Treating Chronic Low Back and Lower Extremity Pain: a Systematic Review. Current Pain and Headache Reports, 2020, 24, 70.	1.3	23
24	Experimental Determination of the Crâ€"C2Cl4Bond Dissociation Enthalpy in Cr(CO)5(C2Cl4):Â Quantifying Metalâ€"Olefin Bonding Interactions. Journal of the American Chemical Society, 2001, 123, 12857-12865.	6.6	22
25	Metalâ€"Olefin Interactions in M(CO)5(cycloolefin) (M = Cr, Mo, W; Cycloolefin = Cyclopropene to) Tj ETQq1 1 0.784314 rgBT /Overlo	1.1	21
26	Effects of Phase Polarity and Charge Balance Spinal Cord Stimulation on Behavior and Gene Expression in a Rat Model of Neuropathic Pain. Neuromodulation, 2020, 23, 26-35.	0.4	21
27	Proteomic Modulation in the Dorsal Spinal Cord Following Spinal Cord Stimulation Therapy in an In Vivo Neuropathic Pain Model. Neuromodulation, 2021, 24, 22-32.	0.4	21
28	Phase shift cavity ring-down measurement of Câ€“H (Î”ν=6) vibrational overtone absorptions. Chemical Physics Letters, 2001, 334, 357-364.	1.2	20
29	Photophysical Properties of a Series of Rhenium Selenide Cluster Complexes Containing Nitrogenâ€Donor Ligands. European Journal of Inorganic Chemistry, 2014, 2014, 2254-2261.	1.0	20
30	A Continuous Spinal Cord Stimulation Model Attenuates Pain-Related Behavior In Vivo Following Induction of a Peripheral Nerve Injury. Neuromodulation, 2015, 18, 171-176.	0.4	17
31	Synthesis of Novel Quaternary Ammonium Salts and Their in Vitro Antileishmanial Activity and U-937 Cell Cytotoxicity. Molecules, 2016, 21, 381.	1.7	17
32	Changes in Dorsal Root Ganglion Gene Expression in Response to Spinal Cord Stimulation. Regional Anesthesia and Pain Medicine, 2017, 42, 246-251.	1.1	14
33	Comparisons of Lesion Volumes and Shapes Produced by a Radiofrequency System with a Cooled, a Protruding, or a Monopolar Probe. Pain Physician, 2017, 20, E915-E922.	0.3	12
34	Reactions of Fe(CO)3and Fe(CO)4with C2Cl4in the Gas Phase Monitored by Transient Infrared Spectroscopy:Â Formation of Fe(CO)4(C2Cl4), Fe(CO)3(C2Cl4)2, and Novel Chloride Complexes Resulting from the Oxidative Addition of C2Cl4. Journal of Physical Chemistry A, 2000, 104, 8011-8026.	1.1	11
35	Metalâ€"Olefin Bond Energies in M(CO)₅(C₂H_{4-n}Cl_n) M = Cr, Mo, W; n = 0â€"4: Electron-Withdrawing Olefins Do Not Increase the Bond Strength. Journal of Physical Chemistry A, 2009, 113, 9692-9699.	1.1	11
36	Electrical Stimulation of C6 Glia-Precursor Cells In Vitro Differentially Modulates Gene Expression Related to Chronic Pain Pathways. Brain Sciences, 2019, 9, 303.	1.1	11

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37	Electron-Withdrawing Effects on Metalâ^'Olefin Bond Strengths in Ni(PH3)2(CO)(C2XnH4-n), X = F, Cl;n= 0â^'4:Â A DFT Study. Journal of Physical Chemistry A, 2003, 107, 8763-8773.	1.1	10
38	A density functional theory benchmark of the formation enthalpy and first CO dissociation enthalpy of hexacarbonyl complexes of chromium, molybdenum, and tungsten. Computational and Theoretical Chemistry, 2004, 711, 123-131.	1.5	10
39	In vivo studies of the effectiveness of novel N-halomethylated and non-halomethylated quaternary ammonium salts in the topical treatment of cutaneous leishmaniasis. Parasitology Research, 2018, 117, 273-286.	0.6	10
40	Synthesis, characterization, and crystal structure of [Cu{(3,5-Ph2Pz)2BH2}2]0: Evidence of a Bâ€“Hâ€“Cu agostic interaction. Journal of Molecular Structure, 2008, 888, 168-172.	1.8	9
41	Differential target multiplexed spinal cord stimulation programming modulates proteins involved in ion regulation in an animal model of neuropathic pain. Molecular Pain, 2022, 18, 174480692110601.	1.0	9
42	Modulation of Glia-Mediated Processes by Spinal Cord Stimulation in Animal Models of Neuropathic Pain. Frontiers in Pain Research, 2021, 2, 702906.	0.9	8
43	Vibrational overtone spectroscopy of CH2D2 in liquid argon solutions. Chemical Physics, 1996, 209, 79-90.	0.9	7
44	Effects of Specific Electric Field Stimulation on the Release and Activity of Secreted Acid Phosphatases from Leishmania tarentolae and Implications for Therapy. Pathogens, 2018, 7, 77.	1.2	6
45	Integrating Free Computer Software in Chemistry and Biochemistry Instruction: An International Collaboration. Journal of Science Education and Technology, 2010, 19, 434-437.	2.4	5
46	Synthesis and Structure of a Trigonal Planar Complex with Pyrazole Ligands, [Cu(3,5-Ph2PzH)3][Cl]. Journal of Chemical Crystallography, 2015, 45, 189-192.	0.5	5
47	Proteomic and Phosphoproteomic Changes of MAPK-Related Inflammatory Response in an Animal Model of Neuropathic Pain by Differential Target Multiplexed SCS and Low-Rate SCS. Journal of Pain Research, 2022, Volume 15, 895-907.	0.8	5
48	Cis- and trans-3-hexene: infrared spectrum in liquid argon solution, ab initio calculations of equilibrium geometry, normal coordinate analysis, and vibrational assignments. Journal of Molecular Structure, 1998, 440, 265-288.	1.8	4
49	Reactions of Fe(CO)4 with C2H5I in the Gas Phase:â€‰ Evidence for the Formation of IFe(CO)4(C2H5), IFe(CO)3(Î·2-COC2H5), and IFe(CO)4(COC2H5). Organometallics, 2005, 24, 1233-1241.	1.1	4
50	Preferred conformations of the gas phase complex between Li+ and a model macrocycle tetraamide. Computational and Theoretical Chemistry, 2007, 819, 79-87.	1.5	4
51	An Experimental Determination of the Crâ^'DMB (DMB = 3,3-Dimethyl-1-butene) Bond Energy in Cr(CO)5(DMB):Â Effects of Alkyl Substitution on Chromiumâ^'Olefin Bond Energies in Cr(CO)5(olefin) Complexes. Journal of Physical Chemistry A, 2002, 106, 4651-4660.	1.1	3
52	The quest for neurobiological mechanisms of electrical stimulation of the spinal cord to reduce chronic neuropathic pain. Bioelectronics in Medicine, 2019, 2, 139-142.	2.0	3
53	Crystal structures of three newN-halomethylated quaternary ammonium salts. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 1230-1235.	0.2	2
54	Description of a pulsed capacitor discharge ionization source for the generation of intense cluster ion beams. Review of Scientific Instruments, 1998, 69, 2325-2332.	0.6	1

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55	Generation of metalâ€“ligand cluster ion beams through pulsed discharge ionization and ablation. International Journal of Mass Spectrometry, 2000, 197, 71-84.	0.7	1
56	Microscopic Study of Injectable Steroids: Effects of Postmixing Time on Particle Aggregation. Pain Physician, 2020, 23, E417-E424.	0.3	1
57	Reply to Dr Engel. Regional Anesthesia and Pain Medicine, 2016, 41, 790-791.	1.1	0
58	Synthesis, spectroscopic characterization and DFT study of dinuclear ruthenium sawhorse-type complexes derived from the reaction of trinuclear aggregates and (Z)-5-arylidenerhodanines. Journal of Coordination Chemistry, 2016, 69, 2291-2307.	0.8	0
59	Animal Pain Models for Spinal Cord Stimulation. , 0, , .		0
60	9-[(E)-2-feniletenil]antraceno y 9-[(E)-2-(naftalen-2-il)etenil]antraceno como trampas para oxÃgeno singulete: oxidaciÃ³n fotosensibilizada y efecto fotodinÃ¡mico sobre parÃ¡sitos Leishmania tarentolae. Biosalud, 2016, 15, 25-40.	0.1	0
61	ID:16019 Characterization of Non-Surgical Back Pain Patients Within the DTM SCS Randomized Controlled Study. Neuromodulation, 2022, 25, S67.	0.4	0
62	ID:15974 Differential Target Multiplexed SCS Programming Modulates NFÎºB-mediated Inflammatory Signaling in a Model of Neuropathic Pain. Neuromodulation, 2022, 25, S24-S25.	0.4	0
63	ID:15962 Differential Target Multiplexed SCS Programming Modulates Caspase-Apoptosis Signaling in an Animal Model of Neuropathic Pain. Neuromodulation, 2022, 25, S22.	0.4	0