

# Donald F Weaver

## List of Publications by Year in descending order

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227  
papers

4,814  
citations

136950

32  
h-index

118850

62  
g-index

232  
all docs

232  
docs citations

232  
times ranked

5394  
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphine, Gabapentin, or Their Combination for Neuropathic Pain. <i>New England Journal of Medicine</i> , 2005, 352, 1324-1334.	27.0	1,006
2	A Comparison of Methods for Modeling Quantitative Structure-Activity Relationships. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 5541-5554.	6.4	212
3	Î²-Alanine as a small molecule neurotransmitter. <i>Neurochemistry International</i> , 2010, 57, 177-188.	3.8	158
4	The Blood-Brain Barrier (BBB) Score. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 9824-9836.	6.4	157
5	Spline-Fitting with a Genetic Algorithm: A Method for Developing Classification Structure-Activity Relationships. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 1906-1915.	2.8	136
6	The Development of New Therapeutics for Alzheimer's Disease. <i>Clinical Pharmacology and Therapeutics</i> , 2010, 88, 475-486.	4.7	94
7	Characterization of aromatic-thiol Î€-type hydrogen bonding and phenylalanine-cysteine side chain interactions through ab initio calculations and protein database analyses. <i>Molecular Physics</i> , 2001, 99, 1689-1699.	1.7	87
8	Some aryl semicarbazones possessing anticonvulsant activities. <i>European Journal of Medicinal Chemistry</i> , 1995, 30, 287-301.	5.5	81
9	Structural Aspects of Congo Red as an Inhibitor of Protease-Resistant Prion Protein Formation. <i>Journal of Neurochemistry</i> , 1998, 71, 2534-2541.	3.9	80
10	Zinc alters conformation and inhibits biological activities of nerve growth factor and related neurotrophins. <i>Nature Medicine</i> , 1997, 3, 872-878.	30.7	78
11	Molecular similarity based on information entropies and distances. <i>Journal of Chemical Physics</i> , 1998, 108, 5469-5475.	3.0	75
12	Molecular modeling of the von Willebrand factor A2 Domain and the effects of associated type 2A von Willebrand disease mutations. <i>Journal of Molecular Modeling</i> , 2004, 10, 259-270.	1.8	71
13	Characterization of Aromatic Amide(Side-Chain) Interactions in Proteins through Systematic ab Initio Calculations and Data Mining Analyses. <i>Journal of Physical Chemistry A</i> , 2000, 104, 4521-4532.	2.5	66
14	The bioisosteric similarity of the tetrazole and carboxylate anions: Clues from the topologies of the electrostatic potential and of the electron density. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 1868-1872.	5.5	65
15	Reciprocal modulation of TrkA and p75NTR affinity states is mediated by direct receptor interactions. <i>European Journal of Neuroscience</i> , 1998, 10, 890-898.	2.6	64
16	A one-pot synthesis of 3-amino-3-arylpropionic acids. <i>Tetrahedron</i> , 2002, 58, 7449-7461.	1.9	61
17	Improving the clinical assessment of consciousness with advances in electrophysiological and neuroimaging techniques. <i>BMC Neurology</i> , 2010, 10, 11.	1.8	50
18	An examination of intermolecular and intramolecular hydrogen bonding in biomolecules by AM1 and MNDO/M semiempirical molecular orbital studies. <i>Journal of Computational Chemistry</i> , 1991, 12, 584-593.	3.3	47

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19	Impact of Protecting Ligands on Surface Structure and Antibacterial Activity of Silver Nanoparticles. <i>Langmuir</i> , 2015, 31, 3745-3752.	3.5	47
20	An ab initio and data mining study on aromatic $\pi$ -amide interactions. <i>Chemical Physics Letters</i> , 1999, 310, 323-332.	2.6	45
21	Phenylindanes in Brewed Coffee Inhibit Amyloid-Beta and Tau Aggregation. <i>Frontiers in Neuroscience</i> , 2018, 12, 735.	2.8	43
22	Patients' Attitudes and Prior Treatments in Neuropathic Pain: A Pilot Study. <i>Pain Research and Management</i> , 2002, 7, 199-203.	1.8	41
23	Pharmacoresistant epilepsy: Unmet needs in solving the puzzle(s). <i>Epilepsia</i> , 2013, 54, 80-85.	5.1	40
24	COVID-19 as a Trigger of Brain Autoimmunity. <i>ACS Chemical Neuroscience</i> , 2021, 12, 2558-2561.	3.5	39
25	RECENT ADVANCES IN RESEARCH ON RADIOFREQUENCY FIELDS AND HEALTH. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2001, 4, 145-159.	6.5	39
26	Recent Advances in Research on Radiofrequency Fields and Health: 2001 $\pi$ 2003. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2007, 10, 287-318.	6.5	38
27	Molecular modelling of the GABAA ion channel protein. <i>Journal of Molecular Graphics and Modelling</i> , 2007, 25, 721-730.	2.4	38
28	Development of modified force field for cation-amino acid interactions: Ab initio-derived empirical correction terms with comments on cation- $\pi$ interactions. <i>Journal of Computational Chemistry</i> , 1998, 19, 1515-1525.	3.3	36
29	Epilepsy and antiepileptic drug use in elderly people as risk factors for dementia. <i>Journal of the Neurological Sciences</i> , 2007, 252, 169-172.	0.6	36
30	Development of Quantitative Structure $\pi$ Activity Relationships and Classification Models for Anticonvulsant Activity of Hydantoin Analogues. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 1028-1036.	2.8	35
31	Shannon entropy of chemical changes: SN2 displacement reactions. <i>International Journal of Quantum Chemistry</i> , 2000, 77, 376-382.	2.0	34
32	Three-dimensional quantitative structure-activity and structure-selectivity relationships of dihydrofolate reductase inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , 2004, 18, 309-331.	2.9	34
33	The interaction of neurotrophins with the p75 <sup>NTR</sup> common neurotrophin receptor: A comprehensive molecular modeling study. <i>Protein Science</i> , 1999, 8, 2223-2233.	7.6	34
34	On the structures of alpha-lithiated sulfoxide, sulfone and sulfonium systems. Implications for the stereochemistry of functionalization of carbon atoms adjacent to sulfur. <i>Tetrahedron Letters</i> , 1984, 25, 2863-2866.	1.4	33
35	Effects of the Novel IDO Inhibitor DWG-1036 on the Behavior of Male and Female 3xTg-AD Mice. <i>Frontiers in Pharmacology</i> , 2019, 10, 1044.	3.5	33
36	Measures of distance for atomic charge and momentum densities and their relationship to physical properties. <i>International Journal of Quantum Chemistry</i> , 1995, 53, 627-633.	2.0	32

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37	Anaesthetic binding sites for etomidate and propofol on a GABAA receptor model. <i>Neuroscience Letters</i> , 2007, 418, 28-33.	2.1	32
38	Furazans in Medicinal Chemistry. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 1786-1815.	6.4	31
39	Hit-to-Lead Optimization of a Novel Class of Potent, Broad-Spectrum Trypanosomacides. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 9686-9720.	6.4	30
40	POTENTIAL HEALTH RISKS OF RADIOFREQUENCY FIELDS FROM WIRELESS TELECOMMUNICATION DEVICES. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2001, 4, 1-143.	6.5	30
41	Calculating the logarithmic mean excitation energy from the Shannon information entropy of the electronic charge density. <i>Physical Review A</i> , 1998, 57, 4512-4517.	2.5	29
42	The "promiscuous drug concept" with applications to Alzheimer's disease. <i>FEBS Letters</i> , 2005, 579, 1338-1342.	2.8	29
43	Identification of Potent Indoleamine 2,3-Dioxygenase 1 (IDO1) Inhibitors Based on a Phenylimidazole Scaffold. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 131-136.	2.8	29
44	Ab initio methane dimer intermolecular potentials. <i>Molecular Physics</i> , 1995, 85, 1179-1192.	1.7	28
45	A Review of Density Functional Theory Quantum Mechanics as Applied to Pharmaceutically Relevant Systems. <i>Current Computer-Aided Drug Design</i> , 2007, 3, 290-296.	1.2	28
46	Alzheimer's disease as an autoimmune disorder of innate immunity endogenously modulated by tryptophan metabolites. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2022, 8, e12283.	3.7	27
47	Density Functional Theory Investigations on the Chemical Basis of the Selectivity Filter in the K <sup>+</sup> Channel Protein. <i>Journal of the American Chemical Society</i> , 2004, 126, 4711-4716.	13.7	26
48	Determination of Octanol-water Partition Coefficients by an HPLC Method for Anticonvulsant Structure-activity Studies. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 47, 345-347.	2.4	26
49	Phenylpropanoids and Alzheimer's disease: A potential therapeutic platform. <i>Neurochemistry International</i> , 2018, 120, 99-111.	3.8	26
50	MMPEP: Development and evaluation of peptide parameters for Allinger's MMP2(85) programme, including calculations on crambin and insulin. <i>Canadian Journal of Chemistry</i> , 1988, 66, 2687-2702.	1.1	25
51	N-, $\hat{1}\pm$ , and $\hat{2}$ -Substituted 3-Aminopropionic acids: design, syntheses and antiseizure activities. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 113-121.	3.0	25
52	Susceptibility to hippocampal kindling seizures is increased in aging C57 black mice. <i>IBRO Reports</i> , 2017, 3, 33-44.	0.3	25
53	Cerebral hypermetabolism produced by intraventricular endothelin-1 in rats: Inhibition by nimodipine. <i>Neuropeptides</i> , 1992, 21, 211-223.	2.2	24
54	Epileptogenesis, Ictogenesis and the Design of Future Antiepileptic Drugs. <i>Canadian Journal of Neurological Sciences</i> , 2003, 30, 4-7.	0.5	24

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55	An investigation of the dependence of Shannon information entropies and distance measures on molecular geometry. <i>International Journal of Quantum Chemistry</i> , 1995, 56, 109-115.	2.0	23
56	Dose-related potent brain stimulation by the neuropeptide endothelin-1 after intraventricular administration in conscious rats. <i>Pharmacology Biochemistry and Behavior</i> , 1995, 51, 37-47.	2.9	23
57	Towards Brain First-Aid: A Diagnostic Device for Conscious Awareness. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 750-754.	4.2	23
58	Intraventricular endothelin-1 uncouples the blood flow: Metabolism relationship in periventricular structures of the rat brain: Involvement of L-type calcium channels. <i>Neuropeptides</i> , 1992, 22, 155-165.	2.2	22
59	Theoretical and Biochemical Studies on the Selectivity of Nerve Growth Factor for Transition Metal Cations. <i>Journal of the American Chemical Society</i> , 1999, 121, 9797-9806.	13.7	22
60	Benzhydryl as an Efficient Selective Nitrogen Protecting Group for Uracils. <i>Journal of Organic Chemistry</i> , 2004, 69, 9307-9309.	3.2	22
61	A Comprehensive Study of Alkane Nonbonded Empirical Force Fields. Suggestions for Improved Parameter Sets. <i>The Journal of Physical Chemistry</i> , 1995, 99, 8058-8065.	2.9	21
62	An information-entropic study of correlated densities of the water molecule. <i>Journal of Chemical Physics</i> , 1998, 109, 10620-10627.	3.0	21
63	Shannon information entropies of molecules and functional groups in the self-consistent reaction field. <i>Journal of Chemical Physics</i> , 2000, 112, 7572-7580.	3.0	21
64	Functionalized amido ketones: new anticonvulsant agents. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 4275-4285.	3.0	21
65	Amyloid beta is an early responder cytokine and immunopeptide of the innate immune system. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2020, 6, e12100.	3.7	21
66	Furosemide as a Probe Molecule for the Treatment of Neuroinflammation in Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2020, 11, 4152-4168.	3.5	21
67	Small molecule therapeutics for COVID-19: repurposing of inhaled furosemide. <i>PeerJ</i> , 2020, 8, e9533.	2.0	21
68	Theoretical structural explanation for Group I and Group II, type 2A von Willebrand disease mutations. <i>Journal of Thrombosis and Haemostasis</i> , 2005, 3, 796-797.	3.8	20
69	Theoretical studies applicable to the design of novel anticonvulsants. <i>Computational and Theoretical Chemistry</i> , 1993, 281, 173-184.	1.5	18
70	FR139317, a specific ETA-receptor antagonist, inhibits cerebral activation by intraventricular endothelin-1 in conscious rats. <i>Neuropharmacology</i> , 1994, 33, 1155-1166.	4.1	18
71	A data mining and ab initio study of the interaction between the aromatic and backbone amide groups in proteins. <i>International Journal of Quantum Chemistry</i> , 2000, 80, 44-60.	2.0	18
72	Understanding the effect of nanoconfinement on the structure of water hydrogen bond networks. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26237-26250.	2.8	18

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73	Metabolic and neuroanatomical correlates of barrel-rolling and oculoclonic convulsions induced by intraventricular endothelin-1: a novel peptidergic signaling mechanism in visuovestibular and oculomotor regulation?. <i>Experimental Brain Research</i> , 1993, 95, 397-408.	1.5	17
74	Data mining, ab initio, and molecular mechanics study on conformation of phenylalanine and its interaction with neighboring backbone amide groups in proteins. <i>International Journal of Quantum Chemistry</i> , 2002, 90, 669-683.	2.0	17
75	Evaluating Spousal Abuse as a Potential Risk Factor for Alzheimer's Disease: Rationale, Needs and Challenges. <i>Neuroepidemiology</i> , 2006, 27, 13-16.	2.3	17
76	The rise of micropharma. <i>Drug Discovery Today</i> , 2010, 15, 84-87.	6.4	17
77	Critical Evaluation of Benzene Analytical Nonbonded Force Fields. Reparametrization of the MM3 Potential. <i>The Journal of Physical Chemistry</i> , 1995, 99, 13868-13875.	2.9	16
78	NMDA-mediated metabolic activation of the cerebellar cortex in behaving rats by the neuropeptide endothelin-1. <i>Brain Research</i> , 1994, 647, 345-352.	2.2	15
79	Molecular pathogenesis of alcohol withdrawal seizures: The modified lipid-protein interaction mechanism. <i>Seizure: the Journal of the British Epilepsy Association</i> , 1997, 6, 255-274.	2.0	15
80	Quantum Pharmacologic Studies Applicable to the Design of Anticonvulsants: Theoretical Conformational Analysis and Structure-Activity Studies of Barbiturates. <i>Epilepsia</i> , 1994, 35, 411-425.	5.1	14
81	Theoretical Studies on the Bioactive Conformation of Nerve Growth Factor Using VBMCA Novel Variable Basis Monte Carlo Simulated Annealing Algorithm for Peptides. <i>Journal of the American Chemical Society</i> , 1996, 118, 9743-9749.	13.7	14
82	Exploring neurotherapeutic space: how many neurological drugs exist (or could exist)?. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 63, 136-139.	2.4	14
83	The hidden variables problem in Alzheimer's disease clinical trial design. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2018, 4, 628-635.	3.7	14
84	Is Inhaled Furosemide a Potential Therapeutic for COVID-19?. <i>American Journal of the Medical Sciences</i> , 2020, 360, 216-221.	1.1	14
85	Pruned Receptor Surface Models and Pharmacophores for Three-Dimensional Database Searching. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 3777-3787.	6.4	13
86	Topically applied linoleic/linolenic acid for chronic migraine. <i>Journal of Clinical Neuroscience</i> , 2018, 58, 200-201.	1.5	13
87	Impaired Spatial Learning and Memory in Middle-Aged Mice with Kindling-Induced Spontaneous Recurrent Seizures. <i>Frontiers in Pharmacology</i> , 2019, 10, 1077.	3.5	13
88	MMPEN: Development and evaluation of penicillin parameters for Allinger's MMP2(85)programme. <i>Canadian Journal of Chemistry</i> , 1988, 66, 2715-2732.	1.1	12
89	Theoretical structural analyses of tricyclic neuroactive drugs: quantum pharmacologic descriptors for clustering anticonvulsant, antidepressant, and antipsychotic activities. <i>Computational and Theoretical Chemistry</i> , 1999, 467, 25-30.	1.5	12
90	Interaction of anticonvulsant drugs with metals: a semi-empirical molecular orbital study of phenytoin-zinc(II) complexation. <i>Computational and Theoretical Chemistry</i> , 1999, 492, 19-28.	1.5	12

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91	A Mathematical Model for Prediction of Drug Molecule Diffusion Across the Blood-Brain Barrier. Canadian Journal of Neurological Sciences, 2004, 31, 520-527.	0.5	12
92	Structure of Tiopronin-Protected Silver Nanoclusters in a One-Dimensional Assembly. Journal of Physical Chemistry C, 2015, 119, 24627-24635.	3.1	12
93	A Maple Syrup Extract Prevents $\beta$ -Amyloid Aggregation. Canadian Journal of Neurological Sciences, 2016, 43, 198-201.	0.5	12
94	The Brain Exposure Efficiency (BEE) Score. ACS Chemical Neuroscience, 2020, 11, 205-224.	3.5	12
95	Daily listening to Mozart reduces seizures in individuals with epilepsy: A randomized control study. Epilepsia Open, 2020, 5, 285-294.	2.4	12
96	Remacemide hydrochloride as an add-on therapy in epilepsy: a randomized, placebo-controlled trial of three dose levels (300, 600 and 800 mg / day) in a B.I.D. regimen. Seizure: the Journal of the British Epilepsy Association, 2002, 11, 104-113.	2.0	11
97	A quantitative structure-activity relationship study for $\beta$ -substituted acetamido-N-benzylacetamide derivatives $\text{A}$ — A novel anticonvulsant drug class. Canadian Journal of Chemistry, 2005, 83, 37-45.	1.1	11
98	Design of innovative therapeutics for pharmaco-resistant epilepsy: Challenges and needs. Epilepsia, 2013, 54, 56-59.	5.1	11
99	Searching for an endogenous anti-Alzheimer molecule: identifying small molecules in the brain that slow Alzheimer disease progression by inhibition of $\beta$ -amyloid aggregation. Journal of Psychiatry and Neuroscience, 2013, 38, 269-275.	2.4	11
100	Diversification of edaravone via palladium-catalyzed hydrazine cross-coupling: Applications against protein misfolding and oligomerization of beta-amyloid. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 100-104.	2.2	11
101	Mechanisms of post-traumatic seizures: a quantum pharmacological analysis of the molecular properties of an epileptogenic focus following iron-induced membrane peroxidation. Seizure: the Journal of the British Epilepsy Association, 1993, 2, 21-33.	2.0	10
102	Organic-pseudoseizures as an unrecognized side-effect of anticonvulsant therapy. Seizure: the Journal of the British Epilepsy Association, 2004, 13, 467-469.	2.0	10
103	Design, synthesis, and biological evaluation of furosemide analogs as therapeutics for the proteopathy and immunopathy of Alzheimer's disease. European Journal of Medicinal Chemistry, 2021, 222, 113565.	5.5	10
104	Theoretical studies applicable to the design of novel anticonvulsants: an AM1 molecular orbital structure-activity study of dihydropyridine calcium channel antagonists. Canadian Journal of Chemistry, 1992, 70, 2449-2460.	1.1	9
105	Determination of Octanol-Water Partition Coefficients for a Series of Imidazolidinediones by a Novel Combination of Micro Shake-Flask and HPLC Techniques. Journal of Liquid Chromatography and Related Technologies, 1994, 17, 2605-2613.	1.0	9
106	Electronic structure analysis of compounds of interest in drug design: mono- and dicarboxylated pyridines. Canadian Journal of Chemistry, 1994, 72, 1388-1403.	1.1	9
107	Are anticonvulsants $\frac{2}{3}$ of local anesthetics? A quantum pharmacology study. Computational and Theoretical Chemistry, 2003, 638, 57-62.	1.5	9
108	Understanding Water Structure in an Ion-Pair Solvation Shell in the Vicinity of a Water/Membrane Interface. Journal of Physical Chemistry B, 2019, 123, 3945-3954.	2.6	9

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109	A Series of 2-((1-Phenyl-1H-imidazol-5-yl)methyl)-1H-indoles as Indoleamine 2,3-Dioxygenase 1 (IDO1) Inhibitors. <i>ChemMedChem</i> , 2021, 16, 2195-2205.	3.2	9
110	Phenceptin: a biomimetic model of the phenytoin receptor. <i>Canadian Journal of Chemistry</i> , 1988, 66, 2751-2762.	1.1	8
111	Potent Metabolic Stimulation of Septal Gray and Cerebral White Matter in Vivo by Intraventricular Endothelin and Nitric Oxide. <i>Biochemical and Biophysical Research Communications</i> , 1993, 190, 975-981.	2.1	8
112	Putative cytoplasmic amphiphilic domains in the nerve growth factor/tumour necrosis factor receptor superfamily. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994, 1196, 21-28.	2.6	8
113	Effect of Cholesterol on the Structure of Networked Water at the Surface of a Model Lipid Membrane. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3686-3694.	2.6	8
114	Ab initio molecular modeling of imadazolium interaction with 5-hydroxy- and 5-methoxyindole: implications for melatonin-based inhibition of Alzheimer $\beta$ -amyloid fibril formation. <i>Computational and Theoretical Chemistry</i> , 2003, 626, 279-285.	1.5	7
115	Nutrients in Alzheimer's Disease: The Interaction of Diet, Drugs and Disease. <i>Canadian Journal of Neurological Sciences</i> , 2019, 46, 23-34.	0.5	7
116	Axonal plasma membrane-mediated toxicity of cholesterol in Alzheimer's disease: A microsecond molecular dynamics study. <i>Biophysical Chemistry</i> , 2022, 281, 106718.	2.8	7
117	Anti-Inflammatory Anthranilate Analogue Enhances Autophagy through mTOR and Promotes ER-Turnover through TEX264 during Alzheimer-Associated Neuroinflammation. <i>ACS Chemical Neuroscience</i> , 2022, 13, 406-422.	3.5	7
118	A computational quantitative structure-activity relationship study of carbamate anticonvulsants using quantum pharmacological methods. <i>Seizure: the Journal of the British Epilepsy Association</i> , 1998, 7, 347-354.	2.0	6
119	Implementing a bioassay to screen molecules for antiepileptogenic activity: chronic pilocarpine versus subdural haematoma models. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2004, 13, 82-86.	2.0	6
120	Potential proconvulsant effects of oral zinc supplementation – A case report. <i>NeuroToxicology</i> , 2008, 29, 476-477.	3.0	6
121	Don't overlook the rigorously reviewed novel work in patents. <i>Nature</i> , 2009, 461, 340-340.	27.8	6
122	A pattern recognition study of acyclic ureide anticonvulsants. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 42, 349-351.	2.4	6
123	In silico search for an endogenous anti-Alzheimer's molecule – Screening amino acid metabolic pathways. <i>Canadian Journal of Chemistry</i> , 2012, 90, 865-873.	1.1	6
124	$\beta$ -Amyloid is an Immuno peptide and Alzheimer's is an Autoimmune Disease. <i>Current Alzheimer Research</i> , 2021, 18, 849-857.	1.4	6
125	An AMI semi-empirical quantum mechanical study of the polyhydration of amino acid side chains. <i>Computational and Theoretical Chemistry</i> , 1991, 226, 73-86.	1.5	5
126	Applications of molecular physics – biotechnology™ to the rational design of an improved phenytoin analogue. <i>Seizure: the Journal of the British Epilepsy Association</i> , 1992, 1, 223-246.	2.0	5

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127	Fragmentation of a series of cyclic dipeptides in fast-atom bombardment mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 800-803.	1.5	5
128	Theoretical studies applied to drug design: ab initio electronic distributions in bioisosteres. <i>Computational and Theoretical Chemistry</i> , 1995, 343, 105-109.	1.5	5
129	Molecular modelling studies of a nerve growth factor receptor. <i>Canadian Journal of Chemistry</i> , 1998, 76, 1389-1401.	1.1	5
130	Theoretical studies on Alzheimer's disease: structures of $\beta$ -amyloid aggregates. <i>Computational and Theoretical Chemistry</i> , 2000, 527, 127-138.	1.5	5
131	Inhibition of Pantothenate Synthetase by Analogs of $\beta$ -Alanine Precursor Ineffective as an Antibacterial Strategy. <i>Chemotherapy</i> , 2019, 64, 22-27.	1.6	5
132	Calcium-mediated metabolic stimulation of neuroendocrine structures by intraventricular endothelin-1 in conscious rats. <i>Brain Research</i> , 1993, 606, 135-142.	2.2	4
133	A Computational Model of the HBK2 Potassium Channel Ion Pore. <i>Biochemical and Biophysical Research Communications</i> , 1993, 194, 1117-1123.	2.1	4
134	AN IMPROVED SYNTHESIS OF $\alpha$ -FMOC-L-LYSINE AND $\alpha$ -FMOC-L-ORNITHINE. <i>Organic Preparations and Procedures International</i> , 1994, 26, 578-580.	1.3	4
135	Validation of a reparameterized MM3 non-bonded force field for hydrocarbons: crystal lattice studies of C60 and C70 and adsorption of hydrocarbons onto graphite. <i>Computational and Theoretical Chemistry</i> , 1995, 358, 71-77.	1.5	4
136	A Spontaneous Recurrent Seizure Bioassay for Anti-Epileptogenic Molecules. <i>Canadian Journal of Neurological Sciences</i> , 2005, 32, 97-102.	0.5	4
137	Misfolded proteins as a therapeutic target in Alzheimer's disease. <i>Advances in Protein Chemistry and Structural Biology</i> , 2019, 118, 371-411.	2.3	4
138	Ferulic acid amide derivatives with varying inhibition of amyloid- $\beta$ oligomerization and fibrillization. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 43, 116247.	3.0	4
139	Designing future drugs for the treatment of intractable epilepsy. <i>Advances in Neurology</i> , 2006, 97, 429-34.	0.8	4
140	Alzheimer's™s: The ABCDE Paradigm. <i>ACS Chemical Neuroscience</i> , 2022, 13, 1355-1357.	3.5	4
141	Calculation of second virial coefficients of alkanes with the MM2 and MM3 force fields. <i>Molecular Physics</i> , 1994, 81, 1039-1047.	1.7	3
142	Perception of Time. <i>Neurology</i> , 2008, 71, 1836-1837.	1.1	3
143	Deducing the Bioactive Face of Hydantoin Anticonvulsant Drugs Using NMR Spectroscopy. <i>Canadian Journal of Neurological Sciences</i> , 2008, 35, 232-236.	0.5	3
144	Drug Design and Discovery: Translational Biomedical Science Varies Among Countries. <i>Clinical and Translational Science</i> , 2013, 6, 409-413.	3.1	3

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145	Font specific reading-induced seizures. <i>Clinical Neurology and Neurosurgery</i> , 2014, 125, 210-211.	1.4	3
146	Point-of-care brain injury evaluation of conscious awareness: wide scale deployment of portable HCS EEG evaluation. <i>Neuroscience of Consciousness</i> , 2018, 2018, niy011.	2.6	3
147	Decoding Interfacial Water Orientation to Predict Surface Charge Density on a Model Sheet Using a Deep Learning Algorithm. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2574-2582.	3.1	3
148	Synthesis of 4-Ethoxycarbonyl-5-arylisoxazolidines via Regioselective Cycloaddition. <i>Synthetic Communications</i> , 2003, 33, 43-51.	2.1	2
149	Patient-relevant, rather than physician-friendly, definitions of disease: An improved definition of epilepsy. <i>American Journal of Medicine</i> , 2005, 118, 805-806.	1.5	2
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