David E Reichert

List of Publications by Year
in descending order

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61 papers	3,077 citations	172457 29 h-index	155660 55 g-index
67 all docs	67 docs citations	67 times ranked	3676 citing authors

#	Article	IF	Citations
1	Self-Assembling Dendrimers. Science, 1996, 271, 1095-1098.	12.6	587
2	Status of GPCR Modeling and Docking as Reflected by Community-wide GPCR Dock 2010 Assessment. Structure, 2011, 19, 1108-1126.	3.3	269
3	Metal complexes as diagnostic tools. Coordination Chemistry Reviews, 1999, 184, 3-66.	18.8	246
4	Staging the Initiation of Autoantibody-Induced Arthritis: A Critical Role for Immune Complexes. Journal of Immunology, 2004, 172, 7694-7702.	0.8	133
5	Preparation of 66Ga- and 68Ga-labeled Ga(III)-deferoxamine-folate as potential folate-receptor-targeted PET radiopharmaceuticals. Nuclear Medicine and Biology, 2003, 30, 725-731.	0.6	113
6	Indium(III) and Gallium(III) Complexes of Bis(aminoethanethiol) Ligands with Different Denticities:Â Stabilities, Molecular Modeling, andin VivoBehavior. Journal of Medicinal Chemistry, 1996, 39, 458-470.	6.4	97
7	N-Benzylisatin Sulfonamide Analogues as Potent Caspase-3 Inhibitors:Â Synthesis, in Vitro Activity, and Molecular Modeling Studies. Journal of Medicinal Chemistry, 2005, 48, 7637-7647.	6.4	92
8	Mutations of the GABA-A Receptor Î±1 Subunit M1 Domain Reveal Unexpected Complexity for Modulation by Neuroactive Steroids. Molecular Pharmacology, 2008, 74, 614-627.	2.3	82
9	Synthesis and structure of molecular tweezers containing active site functionality. Journal of the American Chemical Society, 1991, 113, 183-196.	13.7	79
10	Multiple functional neurosteroid binding sites on GABAA receptors. PLoS Biology, 2019, 17, e3000157.	5.6	76
11	[18F]- and [11C]-Labeled N-benzyl-isatin sulfonamide analogues as PET tracers for Apoptosis: synthesis, radiolabeling mechanism, and in vivo imaging study of apoptosis in Fas-treated mice using [11C]WC-98. Organic and Biomolecular Chemistry, 2009, 7, 1337.	2.8	69
12	Neurosteroid Analog Photolabeling of a Site in the Third Transmembrane Domain of the Î²3 Subunit of the GABA_A Receptor. Molecular Pharmacology, 2012, 82, 408-419.	2.3	69
13	Stability and Structure of Activated Macrocycles. Ligands with Biological Applications. Inorganic Chemistry, 1996, 35, 3821-3827.	4.0	66
14	Subtype Selectivity of Dopamine Receptor Ligands: Insights from Structure and Ligand-Based Methods. Journal of Chemical Information and Modeling, 2010, 50, 1970-1985.	5.4	64
15	Supramolecular polymer chemistry: design, synthesis, characterization, and kinetics, thermodynamics, and fidelity of formation of self-assembled dendrimers. Tetrahedron, 2002, 58, 825-843.	1.9	60
16	Thiophenol promoted cyclization of enynes. Tetrahedron Letters, 1987, 28, 1503-1505.	1.4	51
17	Production and purification of gallium-66 for preparation of tumor-targeting radiopharmaceuticals. Nuclear Medicine and Biology, 2002, 29, 701-706.	0.6	51
18	Evaluation of gallium-68 tris(2-mercaptobenzyl)amine: a complex with brain and myocardial uptake. Nuclear Medicine and Biology, 1999, 26, 305-316.	0.6	45

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19	Microfluidic radiolabeling of biomolecules with PET radiometals. Nuclear Medicine and Biology, 2013, 40, 42-51.	0.6	43
20	Comparative in Vivo Behavior Studies of Cyclen-Based Copper-64 Complexes:Â Regioselective Synthesis, X-ray Structure, Radiochemistry, logP, and Biodistribution. Journal of Medicinal Chemistry, 2004, 47, 6625-6637.	6.4	40
21	Docking and 3D-QSAR Studies on Isatin Sulfonamide Analogues as Caspase-3 Inhibitors. Journal of Chemical Information and Modeling, 2009, 49, 1963-1973.	5.4	40
22	Labeling and in vivo evaluation of novel copper(II) dioxotetraazamacrocyclic complexes. Nuclear Medicine and Biology, 2000, 27, 375-380.	0.6	39
23	Microfluidic labeling of biomolecules with radiometals for use in nuclear medicine. Lab on A Chip, 2010, 10, 3387.	6.0	38
24	Molecular Mechanics Investigation of Gadolinium(III) Complexes. Inorganic Chemistry, 1996, 35, 7013-7020.	4.0	37
25	Assessment of Copper Nanoclusters for Accurate in Vivo Tumor Imaging and Potential for Translation. ACS Applied Materials & Interfaces, 2019, 11, 19669-19678.	8.0	37
26	CoMFA and docking study of novel estrogen receptor subtype selective ligands. Journal of Computer-Aided Molecular Design, 2003, 17, 313-328.	2.9	35
27	Quantitation and visualization of tumor-specific T cells in the secondary lymphoid organs during and after tumor elimination by PET. Nuclear Medicine and Biology, 2004, 31, 1021-1031.	0.6	34
28	Site-specific effects of neurosteroids on GABAA receptor activation and desensitization. ELife, 2020, 9, .	6.0	32
29	Thiolene and SIFEL-based microfluidic platforms for liquidâ€“liquid extraction. Sensors and Actuators B: Chemical, 2014, 190, 634-644.	7.8	30
30	Comparison of the Binding and Functional Properties of Two Structurally Different D2 Dopamine Receptor Subtype Selective Compounds. ACS Chemical Neuroscience, 2012, 3, 1050-1062.	3.5	25
31	Triazine-Based Tool Box for Developing Peptidic PET Imaging Probes: Syntheses, Microfluidic Radiolabeling, and Structureâ€“Activity Evaluation. Bioconjugate Chemistry, 2014, 25, 761-772.	3.6	25
32	Applications of molecular mechanics to metal-based imaging agents. Coordination Chemistry Reviews, 2001, 212, 111-131.	18.8	24
33	QSAR Studies of Copper Azamacrocycles and Thiosemicarbazones:Â MM3 Parameter Development and Prediction of Biological Properties. Journal of Medicinal Chemistry, 2005, 48, 5561-5569.	6.4	24
34	Molecular Mechanics Force Field for Modeling Technetium(V) Complexes. Inorganic Chemistry, 1996, 35, 2165-2166.	4.0	20
35	Neurosteroid Analogues. 17. Inverted Binding Orientations of Androsterone Enantiomers at the Steroid Potentiation Site on Î³-Aminobutyric Acid Type A Receptors. Journal of Medicinal Chemistry, 2012, 55, 1334-1345.	6.4	20
36	Molecular Modeling of Bifunctional Chelate Peptide Conjugates. 1. Copper and Indium Parameters for the AMBER Force Field. Inorganic Chemistry, 2001, 40, 5223-5230.	4.0	19

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37	Regioselective N-substitution of cyclen with two different alkyl groups: synthesis of all possible isomersElectronic supplementary information (ESI) available: spectroscopic data. See http://www.rsc.org/suppdata/cc/b2/b212667b/. Chemical Communications, 2003, , 766-767.	4.1	18
38	Bitropic D3 Dopamine Receptor Selective Compounds s Potential Antipsychotics. Current Pharmaceutical Design, 2015, 21, 3700-3724.	1.9	18
39	CoMSIA and docking study of rhenium based estrogen receptor ligand analogs. Steroids, 2007, 72, 247-260.	1.8	17
40	A neurosteroid analogue photolabeling reagent labels the colchicineâ€binding site on tubulin: A mass spectrometric analysis. Electrophoresis, 2012, 33, 666-674.	2.4	16
41	Microfluidic Preparation of a ⁸⁹Zr-Labeled Trastuzumab Single-Patient Dose. Journal of Nuclear Medicine, 2016, 57, 747-752.	5.0	16
42	Î²-Cyclodextrin dimers as potential tumor pretargeting agents. Chemical Communications, 2001, , 1312-1313.	4.1	15
43	Synthesis and characterization of the copper(ii) complexes of new N2S2-donor macrocyclic ligands: synthesis and in vivo evaluation of the64Cu complexes. Dalton Transactions, 2009, , 177-184.	3.3	15
44	Synthesis, pharmacological evaluation and molecular modeling studies of triazole containing dopamine D3 receptor ligands. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 519-523.	2.2	15
45	The molecular determinants of neurosteroid binding in the GABA(A) receptor. Journal of Steroid Biochemistry and Molecular Biology, 2019, 192, 105383.	2.5	14
46	Mechanisms of potentiation of the mammalian GABA_A receptor by the marine cembranoid eupalmerin acetate. British Journal of Pharmacology, 2008, 153, 598-608.	5.4	13
47	Evaluation of N-phenyl homopiperazine analogs as potential dopamine D3 receptor selective ligands. Bioorganic and Medicinal Chemistry, 2013, 21, 2988-2998.	3.0	13
48	A Clickable Analogue of Ketamine Retains NMDA Receptor Activity, Psychoactivity, and Accumulates in Neurons. Scientific Reports, 2016, 6, 38808.	3.3	13
49	Development of a microfluidic â€œclick chipâ€•incorporating an immobilized Cu(<scp>i</scp>) catalyst. RSC Advances, 2015, 5, 6142-6150.	3.6	11
50	Intrasubunit and intersubunit steroid binding sites independently and additively mediate Î±1Î²2Î³2L GABA_A receptor potentiation by the endogenous neurosteroid allopregnanolone. Molecular Pharmacology, 2021, 100, MOLPHARM-AR-2021-000268.	2.3	10
51	Use of binding energy in comparative molecular field analysis of isoform selective estrogen receptor ligands. Journal of Molecular Graphics and Modelling, 2004, 23, 23-38.	2.4	9
52	Validation of Trifluoromethylphenyl Diazirine Cholesterol Analogues As Cholesterol Mimetics and Photolabeling Reagents. ACS Chemical Biology, 2021, 16, 1493-1507.	3.4	9
53	Synthesis and Characterization of Racemic Mixture and Meso Isomers of Bis(trans-2-aminocyclohexyl)aminepentaacetic Acid and the Stabilities of Their Gd(III) Complexes. Inorganic Chemistry, 2000, 39, 1480-1486.	4.0	7
54	Mapping nephron mass in vivo using positron emission tomography. American Journal of Physiology - Renal Physiology, 2021, 320, F183-F192.	2.7	7

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55	A Potential Dubin-Johnson Syndrome Imaging Agent: Synthesis, Biodistribution, and MicroPET Imaging. Molecular Imaging, 2005, 4, 153535002005041.	1.4	5
56	â€œClick Chipâ€•Conjugation of Bifunctional Chelators to Biomolecules. Bioconjugate Chemistry, 2017, 28, 986-994.	3.6	5
57	Molecular modeling of hexakis(areneisonitrile)technetium(I), tricarbonyl Î·5 cyclopentadienyl technetium and technetium(V)-oxo complexes: MM3 parameter development and prediction of biological properties. Journal of Molecular Graphics and Modelling, 2007, 25, 616-632.	2.4	4
58	A Digital Revolution in Radiosynthesis. Journal of Nuclear Medicine, 2014, 55, 181-182.	5.0	4
59	Non-standard isotope production and applications at Washington University. AIP Conference Proceedings, 2001, , .	0.4	3
60	Analysis of Modulation of the Ï‡1 GABAA Receptor by Combinations of Inhibitory and Potentiating Neurosteroids Reveals Shared and Distinct Binding Sites. Molecular Pharmacology, 2020, 98, 280-291.	2.3	2
61	Regioselectie N-Substitution of Cyclen with Two Different Alkyl Groups: Synthesis of All Possible Isomers.. ChemInform, 2003, 34, no.	0.0	0