## Richard K Shoemaker

List of Publications by Year in descending order

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75 papers 4,928 citations

35 h-index 91712 69 g-index

78 all docs

78 docs citations

78 times ranked 6418 citing authors

#	Article	IF	CITATIONS
1	Quorum Sensing in the Dimorphic Fungus Candida albicans Is Mediated by Farnesol. Applied and Environmental Microbiology, 2001, 67, 2982-2992.	1.4	863
2	Heat―or Waterâ€Driven Malleability in a Highly Recyclable Covalent Network Polymer. Advanced Materials, 2014, 26, 3938-3942.	11.1	636
3	Nature of hydrogen interactions with Ni(II) complexes containing cyclic phosphine ligands with pendant nitrogen bases. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6951-6956.	3.3	321
4	Synthesis and Characterization of Photopolymerized Multifunctional Hydrogels:Â Water-Soluble Poly(Vinyl Alcohol) and Chondroitin Sulfate Macromers for Chondrocyte Encapsulation. Macromolecules, 2004, 37, 6726-6733.	2.2	173
5	New Type of Li lon Conductor with 3D Interconnected Nanopores via Polymerization of a Liquid Organic Electrolyte-Filled Lyotropic Liquid-Crystal Assembly. Journal of the American Chemical Society, 2009, 131, 15972-15973.	6.6	152
6	Ready Access to Fluorinated Phosphonate Mimics of Secondary Phosphates. Synthesis of the $(\hat{l}\pm,\hat{l}\pm-Difluoroalkyl)$ phosphonate Analogues ofl-Phosphoserine, l-Phosphoallothreonine, and l-Phosphothreonine. Journal of Organic Chemistry, 1996, 61, 4666-4675.	1.7	123
7	Pendant Bases as Proton Relays in Iron Hydride and Dihydrogen Complexes. Journal of the American Chemical Society, 2006, 128, 3002-3010.	6.6	120
8	Photochemistry of aqueous pyruvic acid. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11714-11719.	3.3	118
9	Re-healable polyimine thermosets: polymer composition and moisture sensitivity. Polymer Chemistry, 2016, 7, 7052-7056.	1.9	108
10	Three serendipitous pathways in <i>E. coli</i> can bypass a block in pyridoxalâ€5â€2â€phosphate synthesis. Molecular Systems Biology, 2010, 6, 436.	3.2	102
11	Coordination-Driven Face-Directed Self-Assembly of Trigonal Prisms. Face-Based Conformational Chirality. Journal of the American Chemical Society, 2008, 130, 7620-7628.	6.6	100
12	On-resin peptide macrocyclization using thiol–ene click chemistry. Chemical Communications, 2010, 46, 4061.	2.2	87
13	Inclusion Compound Based Approach to Arrays of Artificial Dipolar Molecular Rotors. A Surface Inclusion. Journal of the American Chemical Society, 2012, 134, 10122-10131.	6.6	84
14	On the Nature of the B4 Banana Phase:  Crystal or Not a Crystal?. Crystal Growth and Design, 2005, 5, 2091-2099.	1.4	80
15	Photochemical Kinetics of Pyruvic Acid in Aqueous Solution. Journal of Physical Chemistry A, 2014, 118, 8505-8516.	1.1	80
16	A user's guide to the thiol-thioester exchange in organic media: scope, limitations, and applications in material science. Polymer Chemistry, 2018, 9, 4523-4534.	1.9	78
17	Stereochemical Control of Iron(II) Complexes Containing a Diphosphine Ligand with a Pendant Nitrogen Base. Organometallics, 2005, 24, 2481-2491.	1.1	71
18	Structure and Transport Properties of a Novel, Heavily Fluorinated Carbohydrate Analogue. Journal of the American Chemical Society, 1998, 120, 9082-9083.	6.6	70

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19	Nanoscale Structure–Activity Relationships, Mode of Action, and Biocompatibility of Gold Nanoparticle Antibiotics. Journal of the American Chemical Society, 2014, 136, 5295-5300.	6.6	68
20	Induction of B-A transitions of deoxyoligonucleotides by multivalent cations in dilute aqueous solution. Biophysical Journal, 1993, 65, 1039-1049.	0.2	64
21	Polymerizable Vancomycin Derivatives for Bactericidal Biomaterial Surface Modification: Structureâ <sup>°</sup> Function Evaluation. Biomacromolecules, 2009, 10, 2221-2234.	2.6	64
22	Double Helical Octaphenylene. Angewandte Chemie International Edition in English, 1997, 36, 488-491.	4.4	61
23	Chemical Structure of Blepharismin, the Photosensor Pigment forBlepharisma japonicum. Journal of the American Chemical Society, 1997, 119, 5762-5763.	6.6	60
24	Hydration of pyruvic acid to its geminal-diol, 2,2-dihydroxypropanoic acid, in a water-restricted environment. Chemical Physics Letters, 2011, 513, 184-190.	1.2	50
25	Photoinitiated Synthesis of Self-Assembled Vesicles. Journal of the American Chemical Society, 2014, 136, 3784-3787.	6.6	47
26	Highly Active Multidentate Ligandâ€Based Alkyne Metathesis Catalysts. Chemistry - A European Journal, 2016, 22, 7959-7963.	1.7	47
27	Synthesis and Characterization of Binucleating Bis(amidinate) Ligands and Their Dialuminum Complexes. Inorganic Chemistry, 2004, 43, 1159-1166.	1.9	46
28	Design, Synthesis, and Preliminary Evaluation of Doxazolidine Carbamates as Prodrugs Activated by Carboxylesterases. Journal of Medicinal Chemistry, 2006, 49, 7002-7012.	2.9	41
29	Pyridine Ligand Rotation in Self-Assembled Trigonal Prisms. Evidence for Intracage Solvent Vapor Bubbles. Journal of the American Chemical Society, 2008, 130, 7629-7638.	6.6	41
30	Characterization of Silkworm Chlorophyll Metabolites as an Active Photosensitizer for Photodynamic Therapy. Journal of Natural Products, 1992, 55, 1241-1251.	1.5	39
31	Dizirconium Complexes Supported by Preorganized Binucleating Bis(amidinates). Organometallics, 2003, 22, 4818-4824.	1.1	39
32	Toward Self-Assembled Surface-Mounted Prismatic Altitudinal Rotors. A Test Case:  Molecular Rectangle. Organic Letters, 2004, 6, 2093-2096.	2.4	39
33	Synthesis and characterization of a fluxional Re(I) carbonyl complex fac-[Re(CO)3(dpop′)Cl] with the nominally tri-dentate ligand dipyrido(2,3-a:3′,2′-j)phenazine (dpop′). Inorganica Chimica Acta, 2006, 359, 1478-1484.	1.2	39
34	The utility of the single-molecule magnet Fe8 as a magnetic resonance imaging contrast agent over a broad range of concentration. Polyhedron, 2007, 26, 2413-2419.	1.0	39
35	Pyridoxal Phosphate Binding Sites Are Similar in Human Heme-dependent and Yeast Heme-independent Cystathionine l²-Synthases. Journal of Biological Chemistry, 2001, 276, 19350-19355.	1.6	37
36	LiCB <sub>11</sub> (CH <sub>3</sub> ) <sub>12</sub> -Catalyzed Radical Polymerization of Isobutylene: Highly Branched Polyisobutylene and an Isobutyleneâ°Ethyl Acrylate Copolymer. Journal of the American Chemical Society, 2009, 131, 3132-3133.	6.6	36

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37	Coordination Complexes of Molybdenum with 3,6-Di-tert-butylcatechol. Addition Products of DMSO, PyridineN-oxide, and Triphenylarsine Oxide to the Putative [MoVIO(3,6-DBCat)2] Monomer and Self-Assembly of the Chiral [{MoVIO(3,6-DBCat)2}4] Square. Inorganic Chemistry, 2004, 43, 2114-2124.	1.9	32
38	Syntheses and Structural Characterizations of Iron(II) Complexes Containing Cyclic Diphosphine Ligands with Positioned Pendant Nitrogen Bases. Organometallics, 2007, 26, 5003-5009.	1.1	32
39	Main-Chain Chiral Smectic Polymers Showing a Large Electroclinic Effect in the SmA* Phase. Chemistry of Materials, 2006, 18, 4576-4584.	3.2	31
40	Catalytic Iron-Mediated Enediene Carbocyclizations: Investigations into the Stereoselective Formation of Bicyclic Ring Systems. Journal of Organic Chemistry, 1995, 60, 3473-3486.	1.7	30
41	Pretransitional Orientational Ordering of a Calamitic Liquid Crystal by Helical Nanofilaments of a Bent-Core Mesogen. Langmuir, 2010, 26, 15541-15545.	1.6	30
42	Chemical Equilibria and Kinetics in Aqueous Solutions of Zymonic Acid. Journal of Physical Chemistry A, 2016, 120, 10096-10107.	1.1	30
43	Mineralization dynamics of metakaolin-based alkali-activated cements. Cement and Concrete Research, 2017, 94, 1-12.	4.6	28
44	Syntheses and Reactions of Iron(II) Complexes Containing Diphosphine Ligands with Pendant Nitrogen Bases. Organometallics, 2007, 26, 4964-4971.	1.1	27
45	Oxidative Substitution of Boranephosphonate Diesters as a Route to Post-synthetically Modified DNA. Journal of the American Chemical Society, 2015, 137, 3253-3264.	6.6	27
46	Improved synthesis of [closo-1-CB9H10]– anion and new C-substituted derivatives. Collection of Czechoslovak Chemical Communications, 2009, 74, 419-431.	1.0	26
47	Sunlight-initiated Chemistry of Aqueous Pyruvic Acid: Building Complexity in the Origin of Life. Origins of Life and Evolution of Biospheres, 2013, 43, 341-352.	0.8	26
48	Aldehydes in grain sorghum wax. JAOCS, Journal of the American Oil Chemists' Society, 2002, 79, 529-533.	0.8	25
49	Inclusion Compound Based Approach to Arrays of Artificial Dipolar Molecular Rotors: Bulk Inclusions. Journal of Organic Chemistry, 2013, 78, 1768-1777.	1.7	24
50	Binding of (6R,S)-Methyltetrahydrofolate to Methyltransferase fromClostridium thermoaceticum:Â Role of Protonation of Methyltetrahydrofolate in the Mechanism of Methyl Transferâ€. Biochemistry, 1999, 38, 5736-5745.	1,2	22
51	Synthesis, Characterization, Crystal Structures, and Reactions of Trigonal Bipyramidal Tin(IV) Complexes Containing a Tetradentate Tripodal Tristhiolatophosphine Ligand. Use in the One-Step Synthesis of an Iron(IV) Complex. Inorganic Chemistry, 2000, 39, 2252-2253.	1.9	21
52	Novel "Reverse Kahne-Type Glycosylationâ€ŧ  Access to O-, N-, and C-Linked Epipodophyllotoxin Conjugates. Organic Letters, 2000, 2, 1149-1152.	2.4	21
53	Bulk Inclusions of Pyridazineâ€Based Molecular Rotors in Tris( o â€phenylenedioxy)cyclotriphosphazene (TPP). Advanced Functional Materials, 2016, 26, 5718-5732.	7.8	21
54	Spectroscopic Comparisons of MoW(porphyrin)2Heterodimers with Homologous Mo2and W2Quadruple Bonds:Â A Dynamic NMR and Resonance Raman Study. Journal of the American Chemical Society, 1998, 120, 1456-1465.	6.6	20

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55	Dizinc Alkoxides and Amides Supported by Binucleating Bis(amidoamine) Ligands. Inorganic Chemistry, 2006, 45, 1815-1822.	1.9	19
56	Tris- <i>o</i> -phenylenedioxycyclotriphosphazene (TPP) Inclusion Compounds Containing a Dipolar Molecular Rotor. Crystal Growth and Design, 2014, 14, 559-568.	1.4	19
57	Inclusion Compound Based Approach to Forming Arrays of Artificial Dipolar Molecular Rotors: A Search for Optimal Rotor Structures. Advanced Materials, 2013, 25, 443-448.	11.1	18
58	Time-Resolved Fluorescence Anisotropy of Bicyclo $[1.1.1]$ pentane/Tolane-Based Molecular Rods Included in Tris (o-phenylenedioxy) cyclotriphosphazene (TPP). Journal of Physical Chemistry C, 2015, 119, 8805-8820.	1.5	18
59	The Partitioning of Small Aromatic Molecules to Air–Water and Phospholipid Interfaces Mediated by Non-Hydrophobic Interactions. Journal of Physical Chemistry B, 2016, 120, 7408-7422.	1.2	17
60	Highly Branched Polyisobutylene by Radical Polymerization under Li[CB <sub>11</sub> (CH <sub>3</sub> ) <sub>12</sub> ] Catalysis. Macromolecules, 2012, 45, 9250-9257.	2.2	16
61	Solid- and Solution-Phase Structures of Zinc Enolates of Amides and Ketones. Organometallics, 2008, 27, 1948-1953.	1.1	14
62	Influence of 5-N-carboxamide modifications on the thermodynamic stability of oligonucleotides. Nucleic Acids Research, 2015, 43, 9107-9122.	6.5	14
63	Effect of Conformational Chirality on Optical Activity Observed in a Smectic of Achiral, Bent-Core Molecules. Journal of Physical Chemistry B, 2017, 121, 6944-6950.	1.2	12
64	Reply to Eugene et al.: Photochemistry of aqueous pyruvic acid. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4276.	3.3	11
65	Synthesis of the first 11-vertex arachno-dicarbathiaborane anion, [1,6,7-C2SB8H11]â°. Polyhedron, 2003, 22, 3541-3545.	1.0	10
66	Layered Phosphonates in Colloidal Synthesis of Anisotropic ZnO Nanocrystals. Chemistry of Materials, 2013, 25, 4321-4329.	3.2	10
67	A magic-angle spinner for sealed samples for use in narrow-gap electromagnets. Journal of Magnetic Resonance, 1986, 67, 367-370.	0.5	7
68	A novel stereoselective synthesis of the ring AB podocarpate system. Tetrahedron Letters, 1989, 30, 6993-6996.	0.7	7
69	A Dimethyl Ketal-Protected Benzoin-Based Linker Suitable for Photolytic Release of Unprotected Peptides. Journal of Organic Chemistry, 2011, 76, 9409-9416.	1.7	7
70	Catalytic palladium-mediated tetraene carbocyclizations: diastereoselective deuteration and its convenient analysis by a difference spin polarization transfer (DSPT) NMR experiment. Tetrahedron Letters, 1994, 35, 9161-9164.	0.7	6
71	Synthesis and characterization of arene, mono- and dihydrido-arene, monohydrido-cyclopentadienyl, and phosphite complexes of molybdenum containing the tridentate ligand PhP(CH2CH2PPh2)2. Inorganica Chimica Acta, 1998, 281, 153-159.	1.2	6
72	Origin of the second harmonic generation in a supramolecular inclusion complex between p-nitroaniline and $\hat{l}^2$ -cyclodextrin. Journal of Molecular Structure, 2006, 785, 1-6.	1.8	6

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73	Main-Chain Ferroelectric Liquid Crystal Polymers for Electronic Nonlinear Optics Applications 1. Ferroelectrics, 2004, 309, 77-82.	0.3	5
74	A novel method for conjugating the terminal amine of peptide ligands to cholesterol: synthesis iRGD-cholesterol. Therapeutic Delivery, 2019, 10, 11-20.	1.2	3
75	Magnetic spectroscopy and characterization of La0.65Pb0.35MnO3. Journal of Applied Physics, 2000, 87, 7124-7126.	1.1	1