

Alexander M Spokoyny

List of Publications by Year in descending order

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87
papers

7,115
citations

87723

38
h-index

56606

83
g-index

117
all docs

117
docs citations

117
times ranked

7552
citing authors

#	ARTICLE	IF	CITATIONS
1	Infinite coordination polymer nano- and microparticle structures. <i>Chemical Society Reviews</i> , 2009, 38, 1218.	18.7	748
2	A Perfluoroaryl-Cysteine S _N Ar Chemistry Approach to Unprotected Peptide Stapling. <i>Journal of the American Chemical Society</i> , 2013, 135, 5946-5949.	6.6	389
3	Organometallic palladium reagents for cysteine bioconjugation. <i>Nature</i> , 2015, 526, 687-691.	13.7	377
4	Carborane-based metal-organic frameworks as highly selective sorbents for CO ₂ over methane. <i>Chemical Communications</i> , 2008, , 4135.	2.2	349
5	A coordination chemistry dichotomy for icosahedral carborane-based ligands. <i>Nature Chemistry</i> , 2011, 3, 590-596.	6.6	294
6	Synthesis, Properties, and Gas Separation Studies of a Robust Diimide-Based Microporous Organic Polymer. <i>Chemistry of Materials</i> , 2009, 21, 3033-3035.	3.2	272
7	Synthesis and Hydrogen Sorption Properties of Carborane Based Metal-Organic Framework Materials. <i>Journal of the American Chemical Society</i> , 2007, 129, 12680-12681.	6.6	269
8	Atomically precise organomimetic cluster nanomolecules assembled via perfluoroaryl-thiol S _N Ar chemistry. <i>Nature Chemistry</i> , 2017, 9, 333-340.	6.6	201
9	Ni(III)/(IV) Bis(dicarbollide) as a Fast, Noncorrosive Redox Shuttle for Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 4580-4582.	6.6	190
10	Arylation Chemistry for Bioconjugation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4810-4839.	7.2	169
11	Increased Electrical Conductivity in a Mesoporous Metal-Organic Framework Featuring Metallacarboranes Guests. <i>Journal of the American Chemical Society</i> , 2018, 140, 3871-3875.	6.6	158
12	A click-based porous organic polymer from tetrahedral building blocks. <i>Journal of Materials Chemistry</i> , 2011, 21, 1700.	6.7	156
13	Blue Phosphorescent Zwitterionic Iridium(III) Complexes Featuring Weakly Coordinating <i>nido</i> -Carborane-Based Ligands. <i>Journal of the American Chemical Society</i> , 2016, 138, 15758-15765.	6.6	148
14	Organometallic Gold(III) Reagents for Cysteine Arylation. <i>Journal of the American Chemical Society</i> , 2018, 140, 7065-7069.	6.6	148
15	Chemical reduction of a diimide based porous polymer for selective uptake of carbon dioxide versus methane. <i>Chemical Communications</i> , 2010, 46, 1056.	2.2	144
16	Luminescent metal complexes featuring photophysically innocent boron cluster ligands. <i>Chemical Science</i> , 2016, 7, 5132-5138.	3.7	141
17	Rapid Flow-Based Peptide Synthesis. <i>ChemBioChem</i> , 2014, 15, 713-720.	1.3	136
18	Separation of gas mixtures using Co(II) carborane-based porous coordination polymers. <i>Chemical Communications</i> , 2010, 46, 3478.	2.2	135

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19	New ligand platforms featuring boron-rich clusters as organomimetic substituents. <i>Pure and Applied Chemistry</i> , 2013, 85, 903-919.	0.9	135
20	Gas Adsorption Properties of Cobalt(II)-Carborane-Based Coordination Polymers as a Function of Morphology. <i>Small</i> , 2009, 5, 1727-1731.	5.2	132
21	Electronic Tuning of Nickel-Based Bis(dicarbollide) Redox Shuttles in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5339-5343.	7.2	121
22	Synthesis and Applications of Perfunctionalized Boron Clusters. <i>Inorganic Chemistry</i> , 2018, 57, 2333-2350.	1.9	121
23	Carborane-Based Pincers: Synthesis and Structure of SeBSe and SBS Pd(II) Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 9482-9483.	6.6	116
24	B-N, B-O, and B-CN Bond Formation via Palladium-Catalyzed Cross-Coupling of B-Bromo-Carboranes. <i>Journal of the American Chemical Society</i> , 2016, 138, 9081-9084.	6.6	102
25	Extremely Electron-Rich, Boron-Functionalized, Icosahedral Carborane-Based Phosphinoboranes. <i>Organometallics</i> , 2012, 31, 8478-8481.	1.1	100
26	Metal-catalyzed cross-coupling chemistry with polyhedral boranes. <i>Chemical Communications</i> , 2019, 55, 430-442.	2.2	99
27	Cage-Walking: Vertex Differentiation by Palladium-Catalyzed Isomerization of B(9)-Bromo-meta-Carborane. <i>Journal of the American Chemical Society</i> , 2017, 139, 7729-7732.	6.6	97
28	Visible-Light-Induced Olefin Activation Using 3D Aromatic Boron-Rich Cluster Photooxidants. <i>Journal of the American Chemical Society</i> , 2016, 138, 6952-6955.	6.6	95
29	Surface Dipole Control of Liquid Crystal Alignment. <i>Journal of the American Chemical Society</i> , 2016, 138, 5957-5967.	6.6	94
30	A molecular cross-linking approach for hybrid metal oxides. <i>Nature Materials</i> , 2018, 17, 341-348.	13.3	90
31	Dodecaborane-Based Dopants Designed to Shield Anion Electrostatics Lead to Increased Carrier Mobility in a Doped Conjugated Polymer. <i>Advanced Materials</i> , 2019, 31, e1805647.	11.1	90
32	Convergent diversity-oriented side-chain macrocyclization scan for unprotected polypeptides. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 566-573.	1.5	73
33	Porosity tuning of carborane-based metal-organic frameworks (MOFs) via coordination chemistry and ligand design. <i>Inorganica Chimica Acta</i> , 2010, 364, 266-271.	1.2	64
34	Enzymatic Click-Ligation: Selective Cysteine Modification in Polypeptides Enabled by Promiscuous Glutathione S-transferase. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14001-14005.	7.2	57
35	An Organometallic Strategy for Assembling Atomically Precise Hybrid Nanomaterials. <i>Journal of the American Chemical Society</i> , 2020, 142, 327-334.	6.6	55
36	Tunable Dopants with Intrinsic Counterion Separation Reveal the Effects of Electron Affinity on Dopant Intercalation and Free Carrier Production in Sequentially Doped Conjugated Polymer Films. <i>Advanced Functional Materials</i> , 2020, 30, 2001800.	7.8	53

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37	Forging Unsupported Metal-Boryl Bonds with Icosahedral Carboranes. <i>Chemistry - A European Journal</i> , 2016, 22, 8466-8470.	1.7	51
38	Rapid synthesis of redox-active dodecaborane B ₁₂ (OR) ₁₂ clusters under ambient conditions. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 711-717.	3.0	44
39	Synthesis of 9-borafluorene analogues featuring a three-dimensional 1,1'-bis(o-carborane) backbone. <i>Chemical Communications</i> , 2019, 55, 2892-2895.	2.2	44
40	Oxidative Generation of Boron-Centered Radicals in Carboranes. <i>Journal of the American Chemical Society</i> , 2020, 142, 4586-4591.	6.6	42
41	Enzyme-Catalyzed Macrocyclization of Long Unprotected Peptides. <i>Organic Letters</i> , 2014, 16, 3652-3655.	2.4	39
42	Arylierungschemie für die Biokonjugation. <i>Angewandte Chemie</i> , 2019, 131, 4860-4892.	1.6	39
43	SiO ₂ Aerogel Templated, Porous TiO ₂ Photoanodes for Enhanced Performance in Dye-Sensitized Solar Cells Containing a Ni(III)/(IV) Bis(dicarbollide) Shuttle. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11257-11264.	1.5	38
44	Fine-Tuning Electronic Properties of Luminescent Pt(II) Complexes via Vertex-Differentiated Coordination of Sterically Invariant Carborane-Based Ligands. <i>Organometallics</i> , 2018, 37, 3122-3131.	1.1	35
45	Work Function Control of Germanium through Carborane-Carboxylic Acid Surface Passivation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34592-34596.	4.0	33
46	Off-Cycle Processes in Pd-Catalyzed Cross-Coupling of Carboranes. <i>Organic Process Research and Development</i> , 2019, 23, 1638-1645.	1.3	33
47	Chelating Effect as a Driving Force for the Selective Formation of Heteroligated Pt(II) Complexes with Bidentate Phosphino-Chalcoether Ligands. <i>Inorganic Chemistry</i> , 2011, 50, 1411-1419.	1.9	32
48	Defect-Tolerant Aligned Dipoles within Two-Dimensional Plastic Lattices. <i>ACS Nano</i> , 2015, 9, 4734-4742.	7.3	30
49	Improved synthesis of icosahedral carboranes containing exopolyhedral B-C and C-C bonds. <i>Tetrahedron</i> , 2019, 75, 187-191.	1.0	30
50	Selective Formation of Heteroligated Pt(II) Complexes with Bidentate Phosphine-Thioether (P,S) and Phosphine-Selenoether (P,Se) Ligands via the Halide-Induced Ligand Rearrangement Reaction. <i>Inorganic Chemistry</i> , 2010, 49, 1577-1586.	1.9	28
51	Boron-Dipyromethene-Functionalized Hemilabile Ligands as Turn-On Fluorescent Probes for Coordination Changes in Weak-Link Approach Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 5484-5492.	1.9	28
52	Carborane Guests for Cucurbit[7]uril Facilitate Strong Binding and On-Demand Removal. <i>Journal of the American Chemical Society</i> , 2020, 142, 20513-20518.	6.6	28
53	An Organometallic Strategy for Cysteine Borylation. <i>Journal of the American Chemical Society</i> , 2021, 143, 8661-8668.	6.6	27
54	Sonochemical Synthesis of Small Boron Oxide Nanoparticles. <i>Inorganic Chemistry</i> , 2018, 57, 8037-8041.	1.9	25

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55	Reversible Silver Electrodeposition from Boron Cluster Ionic Liquid (BCIL) Electrolytes. ACS Applied Materials & Interfaces, 2018, 10, 6825-6830.	4.0	23
56	Buchwald's Hartwig amination using Pd(η^2) dimer precatalysts supported by biaryl phosphine ligands. Dalton Transactions, 2018, 47, 3684-3688.	1.6	22
57	Gold(III) Aryl Complexes as Reagents for Constructing Hybrid Peptide-Based Assemblies via Cysteine S-Arylation. Inorganic Chemistry, 2021, 60, 5054-5062.	1.9	21
58	Magnesium Reagents Featuring a 1,1'-bis(o-carborane) Ligand Platform. European Journal of Inorganic Chemistry, 2017, 2017, 4411-4416.	1.0	20
59	Sterically Unprotected Nucleophilic Boron Cluster Reagents. Chem, 2019, 5, 2461-2469.	5.8	20
60	Perfunctionalized Dodecaborate Clusters as Stable Metal-Free Active Materials for Charge Storage. ACS Applied Energy Materials, 2019, 2, 4907-4913.	2.5	19
61	Expanding the Scope of Palladium-Catalyzed C-N Cross-Coupling Chemistry in Carboranes. Organometallics, 2020, 39, 4380-4386.	1.1	18
62	A Super-Oxidized Radical Cationic Icosahedral Boron Cluster. Journal of the American Chemical Society, 2020, 142, 12948-12953.	6.6	16
63	Metal-Free Peralkylation of the closo-Hexaborate Anion. Organometallics, 2017, 36, 1204-1210.	1.1	15
64	A molecular boron cluster-based chromophore with dual emission. Dalton Transactions, 2020, 49, 16245-16251.	1.6	15
65	Plasticity of the Nickel(II) Coordination Environment in Complexes with Hemilabile Phosphino Thioether Ligands. Journal of the American Chemical Society, 2011, 133, 3023-3033.	6.6	14
66	Carborane RAFT agents as tunable and functional molecular probes for polymer materials. Polymer Chemistry, 2019, 10, 1660-1667.	1.9	14
67	Tuning the electrochemical potential of perfunctionalized dodecaborate clusters through vertex differentiation. Chemical Communications, 2018, 54, 5867-5870.	2.2	13
68	Enhancing cycling stability of tungsten oxide supercapacitor electrodes via a boron cluster-based molecular cross-linking approach. Journal of Materials Chemistry A, 2020, 8, 18015-18023.	5.2	13
69	Cross-linking dots on metal oxides. NPG Asia Materials, 2019, 11, .	3.8	12
70	Cross-linked porous polyurethane materials featuring dodecaborate clusters as inorganic polyol equivalents. Chemical Communications, 2019, 55, 8852-8855.	2.2	11
71	Sterically Invariant Carborane-Based Ligands for the Morphological and Electronic Control of Metal-Organic Chalcogenolate Assemblies. Chemistry of Materials, 2022, 34, 6933-6943.	3.2	11
72	Multivalent Cluster Nanomolecules for Inhibiting Protein-Protein Interactions. Bioconjugate Chemistry, 2019, 30, 2594-2603.	1.8	10

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73	An Inorganic Twist in Nanomaterials: Making an Atomically Precise Double Helix. ACS Central Science, 2016, 2, 685-686.	5.3	9
74	An Organometallic Gold(III) Reagent for ¹⁸ F Labeling of Unprotected Peptides and Sugars in Aqueous Media. Organic Letters, 2022, 24, 5132-5136.	2.4	9
75	The Long-Lasting Blues: A New Record for Phosphorescent Organic Light-Emitting Diodes. Chem, 2017, 3, 385-387.	5.8	8
76	Photooxidative Generation of Dodecaborate-Based Weakly Coordinating Anions. Inorganic Chemistry, 2019, 58, 10516-10526.	1.9	7
77	A highly-selective chloride microelectrode based on a mercuracarborand anion carrier. Scientific Reports, 2019, 9, 18860.	1.6	6
78	“Mr. Boron”, an Inorganic Chemistry Icon, Turns 90. Inorganic Chemistry, 2019, 58, 5369-5374.	1.9	5
79	Imparting Scientific Literacy through an Online Materials Chemistry General Education Course. Journal of Chemical Education, 2021, 98, 1594-1601.	1.1	5
80	Dynamic Nuclear Polarization Using 3D Aromatic Boron Cluster Radicals. Journal of Physical Chemistry Letters, 2021, 12, 13-18.	2.1	4
81	Ex Vivo and In Vivo Evaluation of Dodecaborate-Based Clusters Encapsulated in Ferumoxytol Nanoparticles. Langmuir, 2021, 37, 14500-14508.	1.6	4
82	Electronic Structure of Superoxidized Radical Cationic Dodecaborate-Based Clusters. Journal of Physical Chemistry A, 2021, 125, 6141-6150.	1.1	2
83	Icosahedral <i>m</i> -Carboranes Containing Exopolyhedral Se and Te Bonds. Inorganic Chemistry, 2021, 60, 19165-19174.	1.9	2
84	Abiotic Main Group Pharmacophore Renders a New Class of Antimicrobial Agents. ACS Central Science, 2022, 8, 309-311.	5.3	2
85	Narratives of undergraduate research, mentorship, and teaching at UCLA. Pure and Applied Chemistry, 2021, 93, 207-221.	0.9	1
86	Mr. Inorganic Chemistry: M. Frederick Hawthorne (August 24, 1928–July 8, 2021). Inorganic Chemistry, 2021, 60, 12621-12624.	1.9	1
87	Cover Feature: Magnesium Reagents Featuring a 1,1-Bis(o-carborane) Ligand Platform (Eur. J. Inorg. Chem.)	1.0	0