

# Peter Mayer

## List of Publications by Year in descending order

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108  
papers

2,523  
citations

172457

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112  
all docs

112  
docs citations

112  
times ranked

2250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sunlight-powered kHz rotation of a hemithioindigo-based molecular motor. <i>Nature Communications</i> , 2015, 6, 8406.	12.8	160
2	Salts of 5,5'-Azotetrazolate. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 834-845.	2.0	144
3	Highly Energetic Tetraazidoborate Anion and Boron Triazide Adducts. <i>Inorganic Chemistry</i> , 2001, 40, 1334-1340.	4.0	101
4	Twisted Hemithioindigo Photoswitches: Solvent Polarity Determines the Type of Light-Induced Rotations. <i>Journal of the American Chemical Society</i> , 2016, 138, 12219-12227.	13.7	92
5	Hemithioindigo: Highly Bistable Photoswitching at the Biooptical Window. <i>Journal of the American Chemical Society</i> , 2017, 139, 15060-15067.	13.7	90
6	Making Fast Photoswitches Faster—Using Hammett Analysis to Understand the Limit of Donor-Acceptor Approaches for Faster Hemithioindigo Photoswitches. <i>Chemistry - A European Journal</i> , 2014, 20, 13984-13992.	3.3	78
7	Toward Fluorinated Spacers for MAPI-Derived Hybrid Perovskites: Synthesis, Characterization, and Phase Transitions of $(\text{FC}_2\text{H}_4\text{NH}_3)_2\text{PbCl}_4$ . <i>Chemistry of Materials</i> , 2016, 28, 6560-6566.	6.7	74
8	Bistable Photoswitching of Hemithioindigo with Green and Red Light: Entry Point to Advanced Molecular Digital Information Processing. <i>Chemistry - A European Journal</i> , 2017, 23, 6237-6243.	3.3	71
9	Direct Observation of Hemithioindigo-Motor Unidirectionality. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14536-14539.	13.8	64
10	Photon-Only Molecular Motor with Reverse Temperature-Dependent Efficiency. <i>Journal of the American Chemical Society</i> , 2018, 140, 16442-16445.	13.7	64
11	Direct evidence for hula twist and single-bond rotation photoproducts. <i>Nature Communications</i> , 2018, 9, 2510.	12.8	57
12	Simultaneous complementary photoswitching of hemithioindigo tweezers for dynamic guest relocalization. <i>Nature Communications</i> , 2018, 9, 1456.	12.8	53
13	Nucleophilicity and Electrophilicity Parameters for Predicting Absolute Rate Constants of Highly Asynchronous 1,3-Dipolar Cycloadditions of Aryldiazomethanes. <i>Journal of the American Chemical Society</i> , 2018, 140, 16758-16772.	13.7	52
14	Transmission of Unidirectional Molecular Motor Rotation to a Remote Biaryl Axis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11064-11068.	13.8	51
15	Green light powered molecular state motor enabling eight-shaped unidirectional rotation. <i>Nature Communications</i> , 2019, 10, 4449.	12.8	51
16	Active and Unidirectional Acceleration of Biaryl Rotation by a Molecular Motor. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5730-5737.	13.8	50
17	New Hydrazinium Salts of 5,5'-Azotetrazolate. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2001, 56, 857-870.	0.7	44
18	Ingredients to TICT Formation in Donor Substituted Hemithioindigo. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1585-1592.	4.6	44

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19	Synthesis, Characterization, and Crystal Structures of Cu, Ag, and Pd Dinitramide Salts. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2002, 628, 2894-2900.	1.2	42
20	Methylated Ammonium and Hydrazinium Salts of 5,5- $\lambda^2$ -Azotetrazolate. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2001, 56, 847-856.	0.7	37
21	Photocontrol of Polar Aromatic Interactions by a Bis- $\lambda^2$ -Hemithioindigo Based Helical Receptor. <i>Chemistry - A European Journal</i> , 2016, 22, 16433-16436.	3.3	35
22	Synthesis of Double-Bond-Substituted Hemithioindigo Photoswitches. <i>Organic Letters</i> , 2018, 20, 232-235.	4.6	35
23	First Synthesis and Structures of Aryltellurium(IV) Diazides. <i>Inorganic Chemistry</i> , 2000, 39, 5426-5427.	4.0	34
24	Kinetics and Mechanism of Oxirane Formation by Darzens Condensation of Ketones: Quantification of the Electrophilicities of Ketones. <i>Journal of the American Chemical Society</i> , 2018, 140, 5500-5515.	13.7	34
25	Synthesis and characterization of rhenium(III) and (V) pyridylimidazole complexes. <i>Journal of Coordination Chemistry</i> , 2006, 59, 243-253.	2.2	33
26	Bis(pentafluorophenyl)boron azide: synthesis and structural characterization of the first dimeric boron azide. <i>Chemical Communications</i> , 2000, , 667-668.	4.1	32
27	Completing the Picture of 2-(Aminomethylpyridinium) Lead Hybrid Perovskites: Insights into Structure, Conductivity Behavior, and Optical Properties. <i>Chemistry of Materials</i> , 2018, 30, 6289-6297.	6.7	32
28	Plume Deposits from Bipropellant Rocket Engines: Methylhydrazinium Nitrate and N,N-Dimethylhydrazinium Nitrate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2001, 627, 2011-2015.	1.2	31
29	A (+)- $\lambda^2$ -Congener with High Affinity and Subtype Selectivity toward TRPC6. <i>ChemMedChem</i> , 2018, 13, 1028-1035.	3.2	31
30	[Ir(acac)( $\lambda^2$ -C <sub>8</sub> H <sub>14</sub> ) <sub>2</sub> ]: A precursor in the synthesis of cyclometalated iridium(III) complexes. <i>Inorganica Chimica Acta</i> , 2011, 365, 103-107.	2.4	30
31	Evolution of a Unified Strategy for Complex Sesterterpenoids: Progress toward Astellatol and the Total Synthesis of ( $\lambda^2$ )-Nitidasin. <i>Chemistry - A European Journal</i> , 2015, 21, 13646-13665.	3.3	29
32	Benzimidazolium Lead Halide Perovskites: Effects of Anion Substitution and Dimensionality on the Bandgap. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 1369-1376.	1.2	29
33	All-Red-Light Photoswitching of Indirubin Controlled by Supramolecular Interactions. <i>Journal of the American Chemical Society</i> , 2021, 143, 18251-18260.	13.7	26
34	Different coordination modes of tetradentate Schiff bases in monomeric and dimeric oxorhenium(V) complexes. <i>Journal of Coordination Chemistry</i> , 2005, 58, 1505-1512.	2.2	24
35	Mechanistic Studies of Formal Thioboration Reactions of Alkynes. <i>Journal of Organic Chemistry</i> , 2017, 82, 8165-8178.	3.2	24
36	Photogearing as a concept for translation of precise motions at the nanoscale. <i>Nature Chemistry</i> , 2022, 14, 670-676.	13.6	23

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37	Which Factors Control the Nucleophilic Reactivities of Enamines?. Chemistry - A European Journal, 2018, 24, 5901-5910.	3.3	22
38	Synthesis, Structure, and Properties of Amino-Substituted Benzhydrylium Ions – A Link between Ordinary Carbocations and Neutral Electrophiles. European Journal of Organic Chemistry, 2019, 2019, 412-421.	2.4	22
39	Crystal Structures of (PPh <sub>3</sub> ) <sub>2</sub> Pd(N <sub>3</sub> ) <sub>2</sub> , (AsPh <sub>3</sub> ) <sub>2</sub> Pd(N <sub>3</sub> ) <sub>2</sub> , (2-Chloropyridine) <sub>2</sub> Pd(N <sub>3</sub> ) <sub>2</sub> , [(AsPh <sub>4</sub> ) <sub>2</sub> ][Pd <sub>2</sub> (N <sub>3</sub> ) <sub>4</sub> Cl <sub>2</sub> ], [(PNP) <sub>2</sub> ][Pd(N <sub>3</sub> ) <sub>4</sub> ], [(AsPh <sub>4</sub> ) <sub>2</sub> ][Pt(N <sub>3</sub> ) <sub>4</sub> ].1.2 Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2001, 627, 1751-1758.		20
40	Solvation Accounts for the Counterintuitive Nucleophilicity Ordering of Peroxide Anions. Angewandte Chemie - International Edition, 2017, 56, 13279-13282.	13.8	20
41	Design, synthesis and characterization of copper-based coordination compounds with bidentate (N,N) Tj ETQq1 1 0.784314 rgBT /Ov properties. CrystEngComm, 2019, 21, 251-262.	2.6	20
42	Active and Unidirectional Acceleration of Biaryl Rotation by a Molecular Motor. Angewandte Chemie, 2020, 132, 5779-5786.	2.0	20
43	Structures and Reactivities of 2-Trityl- and 2-(Triphenylsilyl)pyrrolidine-Derived Enamines: Evidence for Negative Hyperconjugation with the Trityl Group. Journal of the American Chemical Society, 2014, 136, 14263-14269.	13.7	19
44	Selective high capacity adsorption of Congo red, luminescence and antibacterial assessment of two new cadmium(II) coordination polymers. Journal of Solid State Chemistry, 2018, 258, 618-627.	2.9	19
45	Synthesis, structural characterization, and density functional theory calculations of the two new Zn (II) complexes as antibacterial and anticancer agents with a neutral flexible tetradentate pyrazole-based ligand. Applied Organometallic Chemistry, 2021, 35, e6173.	3.5	18
46	Synthesis, Structural Characterization, Photophysical Properties, and Antibacterial Assessment of Silver(I)-Thione Coordination Polymers Based on a Competition between Nitrate Anion and Coanions CF <sub>3</sub> SO <sub>3</sub> <sup>-</sup> , ClO <sub>4</sub> <sup>-</sup> , BF <sub>4</sub> <sup>-</sup> , PF <sub>6</sub> <sup>-</sup> , and SbF <sub>6</sub> <sup>-</sup> . Crystal Growth and Design, 2019, 19, 4934-4948.	3.0	16
47	An Eight-State Molecular Sequential Switch Featuring a Dual Single-Bond Rotation Photoreaction. Journal of the American Chemical Society, 2022, 144, 3029-3038.	13.7	16
48	Nucleophilic Reactivities and Lewis Basicities of 2-Imidazolines and Related N-Heterocyclic Compounds. European Journal of Organic Chemistry, 2013, 2013, 3369-3377.	2.4	15
49	Selective high adsorption capacity for Congo red dye of a new 3D supramolecular complex and its magnetic hybrid. Inorganic Chemistry Frontiers, 2018, 5, 694-704.	6.0	15
50	Imidazolate coordination of 2,6-bis(2-benzimidazolyl) pyridine in a dimeric rhenium(V) complex. Journal of Coordination Chemistry, 2005, 58, 1271-1277.	2.2	14
51	Sulfoxide hemithioindigo tweezers – visible light addressable capture and release. Chemical Science, 2021, 12, 3651-3659.	7.4	14
52	New Hydrazinium Azide Compounds. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2001, 627, 1477-1482.	1.2	13
53	Monodentate imido coordination of 2-aminodiphenylamine to rhenium(V). Journal of Coordination Chemistry, 2007, 60, 1749-1753.	2.2	13
54	Direct Observation of Hemithioindigo-Motor Unidirectionality. Angewandte Chemie, 2017, 129, 14728-14731.	2.0	13

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55	Steric Effects on the Thermal Processes of Hemithioindigo Based Molecular Motor Rotation. Chemistry - A European Journal, 2021, 27, 10758-10765.	3.3	13
56	Monodentate imido coordination of 1,2-diaminobenzene to rhenium(V). Journal of Coordination Chemistry, 2006, 59, 1515-1519.	2.2	12
57	Synthesis, structural characterization, antibacterial activity and computational studies of new cobalt (II) complexes with 1,1,3,3-tetrakis (3,5-dimethyl-1-pyrazolyl)propane ligand. Journal of Molecular Structure, 2016, 1123, 225-237.	3.6	12
58	Investigation of Structural Changes of Cu(I) and Ag(I) Complexes Utilizing a Flexible, Yet Sterically Demanding Multidentate Phosphine Oxide Ligand. Inorganic Chemistry, 2021, 60, 2437-2445.	4.0	12
59	Synthesis and structure of oxorhenium(V) complexes containing a terdentate imidazole ligand. A route to mixed $\text{Re}^{\text{III}}+\text{Re}^{\text{V}}$ complexes. Journal of Coordination Chemistry, 2005, 58, 947-953.	2.2	11
60	Synthesis, Characterization and Reactivity of a Diorganotin Thiocarboxylate: Dimethyl(thioacetato)-tin(IV) Chloride and its Reactions with Nucleophiles Exhibiting Desulfurization. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2009, 64, 116-122.	0.7	11
61	Inter- and Intramolecular [4+2]-Cycloaddition Reactions with 4,4-Disubstituted N-Silyl-1,4-dihydropyridines as Precursors for N-Protonated 2-Azabutadiene Intermediates. Synthesis, 2014, 46, 1630-1638.	2.3	11
62	Influencing Epigenetic Information with a Hydrolytically Stable Carbocyclic 5-azadeoxycytidine. Angewandte Chemie - International Edition, 2019, 58, 12984-12987.	13.8	11
63	Crystal Structures of the Phosphorus-Boron Adducts $n\text{-Pr}_3\text{P}^{\text{III}}\cdot\text{BBr}_3$ and $\text{I}_3\text{P}^{\text{III}}\cdot\text{BBr}_3$ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2000, 626, 2373-2378.	1.2	10
64	Symmetric and nonsymmetric bis-hemithioindigos " precise visible light controlled shape-shifters. Organic Chemistry Frontiers, 2019, 6, 1244-1252.	4.5	10
65	Adducts of the Heavier Group 13 Element Halides with Aminoiminoboranes. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2004, 59, 681-684.	0.7	9
66	An Overlooked Pathway in 1,3-Dipolar Cycloadditions of Diazoalkanes with Enamines. Angewandte Chemie - International Edition, 2022, 61, .	13.8	9
67	Synthesis and Structures of Aminoalkoxyalanes. European Journal of Inorganic Chemistry, 2001, 2001, 173-180.	2.0	8
68	Molecular Structure of Isocyanic Acid, HNCO, the Imide of Carbon Dioxide. Journal of Physical Chemistry A, 2018, 122, 3287-3292.	2.5	8
69	Coinage Metal Complexes of Bis(quinoline $\text{N}^2$ -methyl)phenylphosphine " Simple Reactions Can Lead to Unprecedented Results. ChemistryOpen, 2022, , e202100224.	1.9	8
70	Coordination of 2,3-diaminopyridine in the diamidopyridinium mode to the $\text{ReO}_3^+$ core. Journal of Coordination Chemistry, 2005, 58, 637-641.	2.2	7
71	A rhenium(V) complex containing a terdentate chelate with an imido donor atom: synthesis and structure of $[\text{Re}(\text{aps})\text{I}(\text{PPh}_3)_2]\text{I}$ ( $\text{H}_3\text{aps}=\text{N}-(2\text{-aminophenyl})\text{-salicylideneimine}$ ). Journal of Coordination Chemistry, 2006, 59, 1149-1155.	2.2	7
72	Uncatalyzed $\text{C}\text{--}\text{H}$ Amination of Aromatic Compounds under Unusually Mild Conditions with Negative Enthalpies of Activation. Asian Journal of Organic Chemistry, 2017, 6, 1080-1085.	2.7	7

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73	Thiete Dioxides as Templates Towards Twisted Scaffolds and Macrocyclic Structures. Chemistry - A European Journal, 2020, 26, 6029-6035.	3.3	7
74	Syntheses and crystal structures of neutral oxorhenium(V) complexes of N2O2-donor tripodal ligands. Journal of Coordination Chemistry, 2003, 56, 1299-1306.	2.2	6
75	The coordination of 2-(hydroxymethyl)pyridine to oxorhenium(V). Synthesis and crystal structure of [ReOCl(C5H4NCH2O)2]. Journal of Chemical Crystallography, 2005, 35, 39-41.	1.1	6
76	Formation and coordination of a terdentate dithiocarbazatopyrazoline derivative to technetium(V). Journal of Coordination Chemistry, 2007, 60, 2369-2375.	2.2	6
77	Synthesis and crystal structure of a rhenium(V) complex containing a tridentate imido-coordinated Schiff base. Journal of Coordination Chemistry, 2007, 60, 635-640.	2.2	6
78	A trigonal-bipyramidal oxorhenium(V) complex with a bidentate nitrogen-donor ligand. Journal of Coordination Chemistry, 2008, 61, 1525-1531.	2.2	6
79	Evolution of a Synthetic Strategy for the Variecolortides. European Journal of Organic Chemistry, 2012, 2012, 5151-5161.	2.4	6
80	Solvatation als Ursache für die unerwartete Nucleophilie-Reihe von Peroxid-Anionen. Angewandte Chemie, 2017, 129, 13463-13467.	2.0	6
81	Synthesis, structural characterization, antibacterial activity and selective dye adsorption of silver (I)-based coordination polymers by tuning spacer length and binding mode of chromate anion. Journal of Solid State Chemistry, 2020, 287, 121322.	2.9	6
82	Synthesis, Crystal Structures, H <sub>2</sub> S, and Iodine Uptake Properties of Four New Coordination Polymers Constructed from Group 12 Transition Metal Ions and a Bidentate Sulfur Donor Ligand. Crystal Growth and Design, 2022, 22, 4343-4356.	3.0	6
83	New Aspects in the Chemistry of Aromatic and Fluoroaromatic Selenium and Tellurium Compounds: Similarities and Diversities. Phosphorus, Sulfur and Silicon and the Related Elements, 2001, 172, 119-128.	1.6	5
84	Synthesis and characterization of a neutral rhenium(V) complex containing a tridentate chelate with an imido donor atom. Journal of Coordination Chemistry, 2007, 60, 1771-1776.	2.2	5
85	Synthesis and characterization of a cationic oxorhenium(V) complex containing the pentadentate N3O2-donor ligand bis (N-methylsalicylideneiminopropyl)amine. Journal of Coordination Chemistry, 2007, 60, 2215-2220.	2.2	5
86	OrthoFRET in Diamantane FRET in Orthogonal Stiff Dyads; Diamond Restriction for Frozen Vibrations. Journal of Organic Chemistry, 2020, 85, 11154-11169.	3.2	5
87	Oxidized Hemithioindigo Photoswitches—Influence of Oxidation State on (Photo)physical and Photochemical Properties. Chemistry - A European Journal, 2020, 26, 10712-10718.	3.3	5
88	Methods for elucidating the structural-property relationship in luminescent materials. Journal of Materials Chemistry C, 2021, 9, 13366-13375.	5.5	5
89	Effective chiral pool synthesis of both enantiomers of the TRPML inhibitor <i>trans</i> -ML <sub>3</sub> . Archiv Der Pharmazie, 2022, 355, e2100362.	4.1	5
90	A synthetic route to cationic oxorhenium(V) complexes containing imidazole derivatives. Journal of Coordination Chemistry, 2005, 58, 1589-1595.	2.2	4

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91	Complexes of <i>cis</i> -dihalogenorhenium(V) with iminophenol. Journal of Coordination Chemistry, 2007, 60, 2207-2213.	2.2	4
92	Disproportionation of rhenium(V). Imidazolate coordination of pyridylbenzimidazole in a rhenium(III) complex. Journal of Coordination Chemistry, 2006, 59, 1509-1514.	2.2	3
93	Synthesis and crystal structure of a homoleptic diruthenium complex containing tetra-2-pyridyl-1,4-pyrazine (tppz). Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2017, 72, 759-762.	0.7	3
94	Characterization of two new degradation products of atorvastatin calcium formed upon treatment with strong acids. Beilstein Journal of Organic Chemistry, 2019, 15, 2085-2091.	2.2	3
95	Traceless Isoprenylation of Aldehydes via <i>N</i> -Boc- <i>N</i> -(1,1-dimethylallyl)hydrazones. European Journal of Organic Chemistry, 2020, 2020, 3680-3687.	2.4	3
96	Pentamethylcyclopentadienyl M(III) Complexes (M = Rh, Ir) Exhibiting 2,3,5,6-tetra(2'-pyridyl)pyrazine as Seven-membered Chelating Ligand. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1316-1318.	1.2	3
97	Crystal structure of a calcium(II)-pyrroloquinoline quinone (PQQ) complex outside a protein environment. Acta Crystallographica Section C, Structural Chemistry, 2020, 76, 1051-1056.	0.5	3
98	Synthesis and crystal structure of [ReOCl <sub>2</sub> (L)] (HL = 2-(1-ethanolaminomethyl)-1-methylimidazole). Journal of Chemical Crystallography, 2005, 35, 35-38.	1.1	2
99	Coordination of a tridentate imido-amino-phenolate chelate to rhenium(V). Journal of Coordination Chemistry, 2006, 59, 1801-1805.	2.2	2
100	Synthesis and structure of a <sup>99m</sup> Tc oxorhenium(V) complex containing imidazole derivatives. Journal of Coordination Chemistry, 2007, 60, 237-242.	2.2	2
101	Technetium(V) complexes of dithiocarbamate derivatives. Journal of Coordination Chemistry, 2007, 60, 1763-1769.	2.2	2
102	Photophysical and structural characterization of the bis-cyclometalated compound [Ir(ppy) <sub>2</sub> ( <sup>15</sup> N-tppz)]PF <sub>6</sub> and evaluation of its cytotoxic activity. Inorganica Chimica Acta, 2022, 534, 120806.	2.4	2
103	Synthesis and structure of bis(triphenylphosphino)dichlorohydroxooxorhenium(V). Journal of Coordination Chemistry, 2007, 60, 641-645.	2.2	1
104	Influencing Epigenetic Information with a Hydrolytically Stable Carbocyclic 5-Aza-2'-deoxycytidine. Angewandte Chemie, 2019, 131, 13118-13121.	2.0	1
105	Synthesis of Seco Analogues of the DHCR24 Inhibitor SH-42. European Journal of Organic Chemistry, 2020, 2020, 6270-6288.	2.4	1
106	FRET in Orthogonal, Increasingly Strained Rigidified Systems. Israel Journal of Chemistry, 2022, 62, .	2.3	1
107	Ein $\frac{1}{4}$ bersehener Reaktionsweg bei 1,3-dipolaren Cycloadditionen von Diazoalkanen mit Enaminen. Angewandte Chemie, 0, , .	2.0	1
108	Frontispiece: Bistable Photoswitching of Hemithioindigo with Green and Red Light: Entry Point to Advanced Molecular Digital Information Processing. Chemistry - A European Journal, 2017, 23, .	3.3	0