Peter Mayer

List of Publications by Year in descending order

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108 papers	2,523 citations	172457 29 h-index	233421 45 g-index
112 all docs	112 docs citations	112 times ranked	2250 citing authors

#	Article	IF	Citations
1	FRET in Orthogonal, Increasingly Strainâ€Rigidified Systems. Israel Journal of Chemistry, 2022, 62, .	2.3	1
2	Effective chiral pool synthesis of both enantiomers of the TRPML inhibitor transâ€MLâ€SI3. Archiv Der Pharmazie, 2022, 355, e2100362.	4.1	5
3	An Overlooked Pathway in 1,3â€Dipolar Cycloadditions of Diazoalkanes with Enamines. Angewandte Chemie - International Edition, 2022, 61, .	13.8	9
4	Photophysical and structural characterization of the bis-cyclometalated compound [Ir(ptpy)2(Îº2N-tppz)]PF6 and evaluation of its cytotoxic activity. Inorganica Chimica Acta, 2022, 534, 120806.	2.4	2
5	Coinage Metal Complexes of Bis(quinolineâ€2â€ylmethyl)phenylphosphineâ€Simple Reactions Can Lead to Unprecedented Results. ChemistryOpen, 2022, , e202100224.	1.9	8
6	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
7	Photogearing as a concept for translation of precise motions at the nanoscale. Nature Chemistry, 2022, 14, 670-676.	13.6	23
8	Synthesis, Crystal Structures, H₂S, 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
9	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 pyrazoleâ€based ligand. Applied Organometallic Chemistry, 2021, 35, e6173.	3.5	18
10	Methods for elucidating the structuralâ€“property relationship in luminescent materials. Journal of Materials Chemistry C, 2021, 9, 13366-13375.	5.5	5
11	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
12	Pentamethylcyclopentadienyl M(III) Complexes (M = Rh, Ir) Exhibiting 2,3,5,6â€tetra(2'â€pyridyl)pyrazine as Sevenâ€membered Chelating Ligand. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1316-1318.	1.2	3
13	Steric Effects on the Thermal Processes of Hemithioindigo Based Molecular Motor Rotation. Chemistry - A European Journal, 2021, 27, 10758-10765.	3.3	13
14	Sulfoxide hemithioindigo tweezers â€“ visible light addressable capture and release. Chemical Science, 2021, 12, 3651-3659.	7.4	14
15	All-Red-Light Photoswitching of Indirubin Controlled by Supramolecular Interactions. Journal of the American Chemical Society, 2021, 143, 18251-18260.	13.7	26
16	Synthesis of Seco â€Analogues of the DHCR24 Inhibitor SHâ€42. European Journal of Organic Chemistry, 2020, 2020, 6270-6288.	2.4	1
17	OrthoFRET in Diamantane FRET in Orthogonal Stiff Dyads; Diamond Restriction for Frozen Vibrations. Journal of Organic Chemistry, 2020, 85, 11154-11169.	3.2	5
18	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

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19	Oxidized Hemithioindigo Photoswitchesâ€"Influence of Oxidation State on (Photo)physical and Photochemical Properties. Chemistry - A European Journal, 2020, 26, 10712-10718.	3.3	5
20	Active and Unidirectional Acceleration of Biaryl Rotation by a Molecular Motor. Angewandte Chemie, 2020, 132, 5779-5786.	2.0	20
21	Thiete Dioxides as Templates Towards Twisted Scaffolds and Macrocyclic Structures. Chemistry - A European Journal, 2020, 26, 6029-6035.	3.3	7
22	Active and Unidirectional Acceleration of Biaryl Rotation by a Molecular Motor. Angewandte Chemie - International Edition, 2020, 59, 5730-5737.	13.8	50
23	Traceless Isoprenylation of Aldehydes via Nâ€Bocâ€Nâ€(1,1â€dimethylallyl)hydrazones. European Journal of Organic Chemistry, 2020, 2020, 3680-3687.	2.4	3
24	Crystal structure of a calcium(II)â€"pyrroloquinoline quinone (PQQ) complex outside a protein environment. Acta Crystallographica Section C, Structural Chemistry, 2020, 76, 1051-1056.	0.5	3
25	Synthesis, Structure, and Properties of Aminoâ€Substituted Benzhydrylium Ions â€" A Link between Ordinary Carbocations and Neutral Electrophiles. European Journal of Organic Chemistry, 2019, 2019, 412-421.	2.4	22
26	Influencing Epigenetic Information with a Hydrolytically Stable Carbocyclic 5â€Azaâ€2â€²â€deoxycytidine. Angewandte Chemie, 2019, 131, 13118-13121.	2.0	1
27	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
28	Green light powered molecular state motor enabling eight-shaped unidirectional rotation. Nature Communications, 2019, 10, 4449.	12.8	51
29	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
30	Influencing Epigenetic Information with a Hydrolytically Stable Carbocyclic 5â€Azaâ€2â€²â€deoxycytidine. Angewandte Chemie - International Edition, 2019, 58, 12984-12987.	13.8	11
31	Synthesis, Structural Characterization, Photophysical Properties, and Antibacterial Assessment of Silver(I)-Thione Coordination Polymers Based on a Competition between Nitrate Anion and Coanions CF3SO3â€", ClO4â€", BF4â€", PF6â€", and SbF6â€". Crystal Growth and Design, 2019, 19, 4934-4948.	3.0	16
32	Symmetric and nonsymmetric bis-hemithioindigos â€" precise visible light controlled shape-shifters. Organic Chemistry Frontiers, 2019, 6, 1244-1252.	4.5	10
33	Molecular Structure of Isocyanic Acid, HNCO, the Imide of Carbon Dioxide. Journal of Physical Chemistry A, 2018, 122, 3287-3292.	2.5	8
34	A (+)â€Larixol Congener with High Affinity and Subtype Selectivity toward TRPC6. ChemMedChem, 2018, 13, 1028-1035.	3.2	31
35	Simultaneous complementary photoswitching of hemithioindigo tweezers for dynamic guest relocalization. Nature Communications, 2018, 9, 1456.	12.8	53
36	Kinetics and Mechanism of Oxirane Formation by Darzens Condensation of Ketones: Quantification of the Electrophilicities of Ketones. Journal of the American Chemical Society, 2018, 140, 5500-5515.	13.7	34

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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	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
39	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
40	Synthesis of Double-Bond-Substituted Hemithioindigo Photoswitches. Organic Letters, 2018, 20, 232-235.	4.6	35
41	Nucleophilicity and Electrophilicity Parameters for Predicting Absolute Rate Constants of Highly Asynchronous 1,3-Dipolar Cycloadditions of Aryldiazomethanes. Journal of the American Chemical Society, 2018, 140, 16758-16772.	13.7	52
42	Photon-Only Molecular Motor with Reverse Temperature-Dependent Efficiency. Journal of the American Chemical Society, 2018, 140, 16442-16445.	13.7	64
43	Direct evidence for hula twist and single-bond rotation photoproducts. Nature Communications, 2018, 9, 2510.	12.8	57
44	Transmission of Unidirectional Molecular Motor Rotation to a Remote Biaryl Axis. Angewandte Chemie - International Edition, 2018, 57, 11064-11068.	13.8	51
45	Completing the Picture of 2-(Aminomethylpyridinium) Lead Hybrid Perovskites: Insights into Structure, Conductivity Behavior, and Optical Properties. Chemistry of Materials, 2018, 30, 6289-6297.	6.7	32
46	Bistable Photoswitching of Hemithioindigo with Green and Red Light: Entry Point to Advanced Molecular Digital Information Processing. Chemistry - A European Journal, 2017, 23, 6237-6243.	3.3	71
47	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
48	Uncatalyzed Câ^'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
49	Ingredients to TICT Formation in Donor Substituted Hemithioindigo. Journal of Physical Chemistry Letters, 2017, 8, 1585-1592.	4.6	44
50	Hemiindigo: Highly Bistable Photoswitching at the Biooptical Window. Journal of the American Chemical Society, 2017, 139, 15060-15067.	13.7	90
51	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
52	Solvatation als Ursache fÃ¼r die unerwartete Nucleophilieâ€Reihung von Peroxidâ€Anionen. Angewandte Chemie, 2017, 129, 13463-13467.	2.0	6
53	Direct Observation of Hemithioindigoâ€Motor Unidirectionality. Angewandte Chemie, 2017, 129, 14728-14731.	2.0	13
54	Direct Observation of Hemithioindigoâ€Motor Unidirectionality. Angewandte Chemie - International Edition, 2017, 56, 14536-14539.	13.8	64

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55	Solvation Accounts for the Counterintuitive Nucleophilicity Ordering of Peroxide Anions. Angewandte Chemie - International Edition, 2017, 56, 13279-13282.	13.8	20
56	Mechanistic Studies of Formal Thioboration Reactions of Alkynes. Journal of Organic Chemistry, 2017, 82, 8165-8178.	3.2	24
57	Benzimidazolium Lead Halide Perovskites: Effects of Anion Substitution and Dimensionality on the Bandgap. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 1369-1376.	1.2	29
58	Photocontrol of Polar Aromatic Interactions by a Bisâ€Hemithioindigo Based Helical Receptor. Chemistry - A European Journal, 2016, 22, 16433-16436.	3.3	35
59	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
60	Toward Fluorinated Spacers for MAPI-Derived Hybrid Perovskites: Synthesis, Characterization, and Phase Transitions of (FC₂H₄NH₃)₂PbCl₄. Chemistry of Materials, 2016, 28, 6560-6566.	6.7	74
61	Twisted Hemithioindigo Photoswitches: Solvent Polarity Determines the Type of Light-Induced Rotations. Journal of the American Chemical Society, 2016, 138, 12219-12227.	13.7	92
62	Evolution of a Unified Strategy for Complex Sesterterpenoids: Progress toward Astellatol and the Total Synthesis of (â^')â€Nitidasin. Chemistry - A European Journal, 2015, 21, 13646-13665.	3.3	29
63	Sunlight-powered kHz rotation of a hemithioindigo-based molecular motor. Nature Communications, 2015, 6, 8406.	12.8	160
64	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
65	Making Fast Photoswitches Fasterâ€"Using Hammett Analysis to Understand the Limit of Donorâ€"Acceptor Approaches for Faster Hemithioindigo Photoswitches. Chemistry - A European Journal, 2014, 20, 13984-13992.	3.3	78
66	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
67	Nucleophilic Reactivities and Lewis Basicities of 2â€Imidazolines and Related Nâ€Heterocyclic Compounds. European Journal of Organic Chemistry, 2013, 2013, 3369-3377.	2.4	15
68	Evolution of a Synthetic Strategy for the Variecolortides. European Journal of Organic Chemistry, 2012, 2012, 5151-5161.	2.4	6
69	[Ir(acac)(Î·2-C8H14)2]: A precursor in the synthesis of cyclometalated iridium(III) complexes. Inorganica Chimica Acta, 2011, 365, 103-107.	2.4	30
70	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
71	A trigonal-bipyramidal oxorhenium(V) complex with a bidentate nitrogen-donor ligand. Journal of Coordination Chemistry, 2008, 61, 1525-1531.	2.2	6
72	Formation and coordination of a terdentate dithiocarbazatopyrazoline derivative to technetium(V). Journal of Coordination Chemistry, 2007, 60, 2369-2375.	2.2	6

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73	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
74	Synthesis and structure of a â€˜4â€‰+â€‰1â€™ oxorhenium(V) complex containing imidazole derivatives. Journal of Coordination Chemistry, 2007, 60, 237-242.	2.2	2
75	Complexes of cis -dihalogenorhenium(V) with iminophenol. Journal of Coordination Chemistry, 2007, 60, 2207-2213.	2.2	4
76	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
77	Synthesis and structure of bis(triphenylphosphino)dichlorohydroxooxorhenium(V). Journal of Coordination Chemistry, 2007, 60, 641-645.	2.2	1
78	Technetium(V) complexes of dithiocarbazate derivatives. Journal of Coordination Chemistry, 2007, 60, 1763-1769.	2.2	2
79	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
80	Monodentate imido coordination of 2-aminodiphenylamine to rhenium(V). Journal of Coordination Chemistry, 2007, 60, 1749-1753.	2.2	13
81	Coordination of a tridentate imido-amino-phenolate chelate to rhenium(V). Journal of Coordination Chemistry, 2006, 59, 1801-1805.	2.2	2
82	A rhenium(V) complex containing a terdentate chelate with an imido donor atom: synthesis and structure of [Re(aps)I(PPh3)2]I (H3apsâ€‰=â€‰N-(2-aminophenyl)-salicylideneimine). Journal of Coordination Chemistry, 2006, 59, 1149-1155.	2.2	7
83	Disproportionation of rhenium(V). Imidazolate coordination of pyridylbenzimidazole in a rhenium(III) complex. Journal of Coordination Chemistry, 2006, 59, 1509-1514.	2.2	3
84	Synthesis and characterization of rhenium(III) and (V) pyridylimidazole complexes. Journal of Coordination Chemistry, 2006, 59, 243-253.	2.2	33
85	Monodentate imido coordination of 1,2-diaminobenzene to rhenium(V). Journal of Coordination Chemistry, 2006, 59, 1515-1519.	2.2	12
86	Coordination of 2,3-diaminopyridine in the diamidopyridinium mode to the ReO3+ core. Journal of Coordination Chemistry, 2005, 58, 637-641.	2.2	7
87	Synthesis and crystal structure of [ReOCl2(L)] (HL = 2-(1-ethanolaminomethyl)-1-methylimidazole). Journal of Chemical Crystallography, 2005, 35, 35-38.	1.1	2
88	The coordination of 2-(hydroxymethyl)pyridine to oxorhenium(V). Synthesis and crystal structure of [ReOCl(C5H4N?CH2O)2]. Journal of Chemical Crystallography, 2005, 35, 39-41.	1.1	6
89	Different coordination modes of tetradentate Schiff bases in monomeric and dimeric oxorhenium(V) complexes. Journal of Coordination Chemistry, 2005, 58, 1505-1512.	2.2	24
90	Synthesis and structure of oxorhenium(V) complexes containing a terdentate imidazole ligand. A route to mixed â€˜3â€‰+â€‰2â€™ complexes. Journal of Coordination Chemistry, 2005, 58, 947-953.	2.2	11

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91	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
92	A synthetic route to cationic â€˜3â€‰+â€‰2â€™ oxorhenium(V) complexes containing imidazole derivatives. Journal of Coordination Chemistry, 2005, 58, 1589-1595.	2.2	4
93	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
94	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
95	Synthesis, Characterization, and Crystal Structures of Cu, Ag, and Pd Dinitramide Salts. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2002, 628, 2894-2900.	1.2	42
96	Salts of 5,5â€²-Azotetrazolate. European Journal of Inorganic Chemistry, 2002, 2002, 834-845.	2.0	144
97	Highly Energetic Tetraazidoborate Anion and Boron Triazide Adductsâ€. Inorganic Chemistry, 2001, 40, 1334-1340.	4.0	101
98	Synthesis and Structures of Aminoalkoxyalanes. European Journal of Inorganic Chemistry, 2001, 2001, 173-180.	2.0	8
99	New Hydrazinium Azide Compounds. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2001, 627, 1477-1482.	1.2	13
100	Crystal Structures of (PPh3)2Pd(N3)2, (AsPh3)2Pd(N3)2, (2-Chloropyridine)2Pd(N3)2, [(AsPh4)2][Pd2(N3)4Cl2], [(PNP)2][Pd(N3)4], [(AsPh4)2][Pt(N3)4]â€ŠÂ·â€Š2â€ŠH2O, and [(AsPh4)2][Pt(N3)6]. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2001, 627, 1751-1758.	1.2	20
101	Plume Deposits from Bipropellant Rocket Engines: Methylhydrazinium Nitrate andN,N-Dimethylhydrazinium Nitrate. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2001, 627, 2011-2015.	1.2	31
102	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
103	New Hydrazinium Salts of 5,5'-Azotetrazolate. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2001, 56, 857-870.	0.7	44
104	Methylated Ammonium and Hydrazinium Salts of 5,5â€²-Azotetrazolate. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2001, 56, 847-856.	0.7	37
105	Crystal Structures of the Phosphorus-Boron Adducts n-Pr3Pâ€ŠÂ·â€ŠBBr3 and I3Pâ€ŠÂ·â€ŠBBr3. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2000, 626, 2373-2378.	1.2	10
106	Bis(pentafluorophenyl)boron azide: synthesis and structural characterization of the first dimeric boron azide. Chemical Communications, 2000, , 667-668.	4.1	32
107	First Synthesis and Structures of Aryltellurium(IV) Diazides. Inorganic Chemistry, 2000, 39, 5426-5427.	4.0	34
108	Ein Ã¼bersehener Reaktionsweg bei 1,3â€dipolaren Cycloadditionen von Diazoalkanen mit Enaminen. Angewandte Chemie, 0, , .	2.0	1