

Petter Persson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

6,188
citations

43
h-index

77
g-index

120
ext. papers

6,726
ext. citations

6.6
avg, IF

5.59
L-index

#	Paper	IF	Citations
115	Electro-mechanically switchable hydrocarbons based on [8]annulenes.. <i>Nature Communications</i> , 2022 , 13, 860	17.4	2
114	Dye-sensitized solar cells based on Fe N-heterocyclic carbene photosensitizers with improved rod-like push-pull functionality.. <i>Chemical Science</i> , 2021 , 12, 16035-16053	9.4	3
113	Resonant X-ray photo-oxidation of light-harvesting iron (II/III) N-heterocyclic carbene complexes. <i>Scientific Reports</i> , 2021 , 11, 22144	4.9	1
112	Photofunctionality of iron(III) N-heterocyclic carbenes and related d transition metal complexes. <i>Coordination Chemistry Reviews</i> , 2021 , 426, 213517	23.2	18
111	Design of robust 2,2'Biipyridine ligand linkers for the stable immobilization of molecular catalysts on silicon(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 9921-9929	3.6	1
110	Spin propensity in resonant photoemission of transition metal complexes. <i>Physical Review Research</i> , 2021 , 3,	3.9	3
109	Microsecond Photoluminescence and Photoreactivity of a Metal-Centered Excited State in a Hexacarbene-Co(III) Complex. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1307-1312	16.4	21
108	A Stable Homoleptic Organometallic Iron(IV) Complex. <i>Chemistry - A European Journal</i> , 2020 , 26, 12728-12732	12.8	8
107	Photophysics and Photochemistry of Iron Carbene Complexes for Solar Energy Conversion and Photocatalysis. <i>Catalysts</i> , 2020 , 10, 315	4	28
106	Vibrational wavepacket dynamics in Fe carbene photosensitizer determined with femtosecond X-ray emission and scattering. <i>Nature Communications</i> , 2020 , 11, 634	17.4	41
105	Site-Selective Orbital Interactions in an Ultrathin Iron-Carbene Photosensitizer Film. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 1603-1609	2.8	7
104	Hot Branching Dynamics in a Light-Harvesting Iron Carbene Complex Revealed by Ultrafast X-ray Emission Spectroscopy. <i>Angewandte Chemie</i> , 2020 , 132, 372-380	3.6	12
103	Hot Branching Dynamics in a Light-Harvesting Iron Carbene Complex Revealed by Ultrafast X-ray Emission Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 364-372	16.4	28
102	Tracing the Full Bimolecular Photocycle of Iron(III)-Carbene Light Harvesters in Electron-Donating Solvents. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8565-8569	16.4	15
101	HERFD-XANES probes of electronic structures of iron carbene complexes. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9067-9073	3.6	5
100	Influence of Triplet Surface Properties on Excited-State Deactivation of Expanded Cage Bis(tridentate)Ruthenium(II) Complexes. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 5293-5299	2.8	3
99	Finding intersections between electronic excited state potential energy surfaces with simultaneous ultrafast X-ray scattering and spectroscopy. <i>Chemical Science</i> , 2019 , 10, 5749-5760	9.4	54

98	Band-selective dynamics in charge-transfer excited iron carbene complexes. <i>Faraday Discussions</i> , 2019 , 216, 191-210	3.6	9
97	How Will the Emerging Plurality of Lives Change How We Conceive of and Relate to Life?. <i>Challenges</i> , 2019 , 10, 32	3.4	0
96	Photovoltaics and bio-inspired light harvesting: general discussion. <i>Faraday Discussions</i> , 2019 , 216, 269-300		
95	Excited State Dynamics of Bistridentate and Trisbidentate Ru Complexes of Quinoline-Pyrazole Ligands. <i>Inorganic Chemistry</i> , 2019 , 58, 16354-16363	5.1	5
94	Luminescence and reactivity of a charge-transfer excited iron complex with nanosecond lifetime. <i>Science</i> , 2019 , 363, 249-253	33.3	155
93	Solvent control of charge transfer excited state relaxation pathways in [Fe(2,2'Fbipyridine)(CN)]. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4238-4249	3.6	41
92	Fe Hexa N-Heterocyclic Carbene Complex with a 528 ps Metal-to-Ligand Charge-Transfer Excited-State Lifetime. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 459-463	6.4	101
91	Tracking the picosecond deactivation dynamics of a photoexcited iron carbene complex by time-resolved X-ray scattering. <i>Chemical Science</i> , 2018 , 9, 405-414	9.4	35
90	Design, Synthesis and Computational Study of Fluorinated Quinoxaline-Oligothiophene-based Conjugated Polymers with Broad Spectral Coverage. <i>ChemPhysChem</i> , 2018 , 19, 3393-3400	3.2	
89	Defining donor and acceptor strength in conjugated copolymers. <i>Molecular Physics</i> , 2017 , 115, 485-496	1.7	12
88	Quantum chemical calculations of the structural influence on electronic properties in TiO ₂ nanocrystals. <i>Molecular Physics</i> , 2017 , 115, 2209-2217	1.7	2
87	Electronic structure and excited state properties of iron carbene photosensitizers: A combined X-ray absorption and quantum chemical investigation. <i>Chemical Physics Letters</i> , 2017 , 683, 559-566	2.5	12
86	Ligand manipulation of charge transfer excited state relaxation and spin crossover in [Fe(2,2'Fbipyridine)(CN)]. <i>Structural Dynamics</i> , 2017 , 4, 044030	3.2	38
85	A low-spin Fe(III) complex with 100-ps ligand-to-metal charge transfer photoluminescence. <i>Nature</i> , 2017 , 543, 695-699	50.4	205
84	Ultrafast Electron Dynamics in Solar Energy Conversion. <i>Chemical Reviews</i> , 2017 , 117, 10940-11024	68.1	202
83	Manipulating charge transfer excited state relaxation and spin crossover in iron coordination complexes with ligand substitution. <i>Chemical Science</i> , 2017 , 8, 515-523	9.4	79
82	Fe N-Heterocyclic Carbene Complexes as Promising Photosensitizers. <i>Accounts of Chemical Research</i> , 2016 , 49, 1477-85	24.3	148
81	High-Performance Hole Transport and Quasi-Balanced Ambipolar OFETs Based on D ₂ A ₂ Thieno-benzo-isoindigo Polymers. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500313	6.4	29

80	Chemical consequences of pyrazole orientation in Ru(II) complexes of unsymmetric quinoline-pyrazole ligands. <i>Dalton Transactions</i> , 2016 , 45, 11723-32	4.3	5
79	Ultrafast excited state dynamics of [Cr(CO) ₄ (bpy)]: revealing the relaxation between triplet charge-transfer states. <i>RSC Advances</i> , 2016 , 6, 20507-20515	3.7	9
78	Diastereomerization Dynamics of a Bistridentate Ru(II) Complex. <i>Inorganic Chemistry</i> , 2016 , 55, 3015-22	5.1	7
77	Molecular and Interfacial Calculations of Iron(II) Light Harvesters. <i>ChemSusChem</i> , 2016 , 9, 667-75	8.3	31
76	Molecular and Interfacial Calculations of Iron(II) Light Harvesters. <i>ChemSusChem</i> , 2016 , 9, 652-652	8.3	1
75	Computational characterization of competing energy and electron transfer states in bimetallic donor-acceptor systems for photocatalytic conversion. <i>Journal of Chemical Physics</i> , 2016 , 145, 104310	3.9	4
74	Exploring Photoinduced Excited State Evolution in Heterobimetallic Ru(II)-Co(III) Complexes. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7378-92	3.4	9
73	Temperature-Dependent Optical Properties of Flexible Donor-Acceptor Polymers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6453-6463	3.8	16
72	Rational design of D-A1-D-A2 conjugated polymers with superior spectral coverage. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26677-89	3.6	12
71	Iron sensitizer converts light to electrons with 92% yield. <i>Nature Chemistry</i> , 2015 , 7, 883-9	17.6	161
70	One-Step Synthesis of Precursor Oligomers for Organic Photovoltaics: A Comparative Study between Polymers and Small Molecules. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27106-14	9.5	23
69	A heteroleptic ferrous complex with mesoionic bis(1,2,3-triazol-5-ylidene) ligands: taming the MLCT excited state of iron(II). <i>Chemistry - A European Journal</i> , 2015 , 21, 3628-39	4.8	106
68	D-A1-D-A2 Copolymers with Extended Donor Segments for Efficient Polymer Solar Cells. <i>Macromolecules</i> , 2015 , 48, 1009-1016	5.5	78
67	Orbital Topology Controlling Charge Injection in Quantum-Dot-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1157-62	6.4	25
66	Light-harvesting capabilities of low band gap donor-acceptor polymers. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24853-65	3.6	24
65	Exceptional Excited-State Lifetime of an Iron(II)-N-Heterocyclic Carbene Complex Explained. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2066-71	6.4	110
64	Water-Soluble Molecularly Imprinted Nanoparticles (MINPs) with Tailored, Functionalized, Modifiable Binding Pockets. <i>Chemistry - A European Journal</i> , 2014 , 21, 3831	4.8	1
63	A homoleptic trisbidentate Ru(II) complex of a novel bidentate biheteroaromatic ligand based on quinoline and pyrazole groups: structural, electrochemical, photophysical, and computational characterization. <i>Inorganic Chemistry</i> , 2014 , 53, 12778-90	5.1	8

62	Material Dependence of Water Interactions with Metal Oxide Nanoparticles. <i>Advances in Quantum Chemistry</i> , 2014 , 69, 303-332	1.4	5
61	Emerging polymorphism in nanostructured TiO ₂ : Quantum chemical comparison of anatase, rutile, and brookite clusters. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 2611-2620	2.1	26
60	Tuning the electronics of bis(tridentate)ruthenium(II) complexes with long-lived excited states: modifications to the ligand skeleton beyond classical electron donor or electron withdrawing group decorations. <i>Inorganic Chemistry</i> , 2013 , 52, 5128-37	5.1	39
59	Development of a ReaxFF reactive force field for titanium dioxide/water systems. <i>Langmuir</i> , 2013 , 29, 7838-46	4	77
58	Conformation sensitive charge transport in conjugated polymers. <i>Applied Physics Letters</i> , 2013 , 103, 213303	3.3	11
57	CHAPTER 3:Multiscale Modelling of Interfacial Electron Transfer. <i>RSC Energy and Environment Series</i> , 2013 , 77-110	0.6	4
56	Quantum Chemical Calculations of Side-Group Stacking and Electronic Properties in ThiopheneQuinoxaline Polymers. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26700-26706	3.8	22
55	Excited state potential energy surfaces of bistridentate RuII complexes [A TD-DFT study. <i>Chemical Physics</i> , 2012 , 407, 76-82	2.3	28
54	Light-harvesting and electronic contacting capabilities of Ru(II) Ipa rod and star complexesfirst principles predictions. <i>RSC Advances</i> , 2012 , 2, 7868	3.7	9
53	Photoinduced electron transfer processes in dye-semiconductor systems with different spacer groups. <i>Journal of Chemical Physics</i> , 2012 , 137, 22A529	3.9	39
52	Influence of triplet state multidimensionality on excited state lifetimes of bis-tridentate RuII complexes: a computational study. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 1041-50	2.8	75
51	Computational study of the catalytic effect of platinum on the decomposition of DNT. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 1852-1858	2.1	1
50	The electronic structure and reflectivity of PEDOT:PSS from density functional theory. <i>Chemical Physics</i> , 2011 , 384, 44-51	2.3	80
49	Meta-substituted RuII rigid rods for sensitization of TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 206, 155-163	4.7	9
48	Large footprint pyrene chromophores anchored to planar and colloidal metal oxide thin films. <i>Langmuir</i> , 2009 , 25, 9219-26	4	21
47	Calculations of interfacial interactions in pyrene-Ipa rod sensitized nanostructured TiO ₂ . <i>Dalton Transactions</i> , 2009 , 10021-31	4.3	21
46	Dynamical Simulation of Photoinduced Electron Transfer Reactions in DyeSemiconductor Systems with Different Anchor Groups. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12326-12333	3.8	77
45	Bistridentate ruthenium(II)polypyridyl-type complexes with microsecond 3MLCT state lifetimes: sensitizers for rod-like molecular arrays. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15533-42	16.4	162

44	Steric influence on the excited-state lifetimes of ruthenium complexes with bipyridyl-alkanylene-pyridyl ligands. <i>Inorganic Chemistry</i> , 2008 , 47, 3540-8	5.1	112
43	Computational study of the lowest triplet state of ruthenium polypyridyl complexes used in artificial photosynthesis. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 4470-6	2.8	56
42	Development and Application of a ReaxFF Reactive Force Field for Oxidative Dehydrogenation on Vanadium Oxide Catalysts. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14645-14654	3.8	106
41	On the excited-state multi-dimensionality in cyanines. <i>Chemical Physics Letters</i> , 2008 , 455, 13-19	2.5	11
40	Frequency dispersed transient absorption spectra of dissolved perylene: A case study using the density matrix version of the MCTDH method. <i>Chemical Physics</i> , 2008 , 347, 152-165	2.3	24
39	Cyclometallated iridium and platinum complexes with noninnocent ligands. <i>Inorganic Chemistry</i> , 2007 , 46, 3865-75	5.1	55
38	Dye-Sensitization of the TiO ₂ Rutile (110) Surface by Perylene Dyes: Quantum-Chemical Periodic B3LYP Computations. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12116-12123	3.8	82
37	Calculated optoelectronic properties of ruthenium tris-bipyridine dyes containing oligophenyleneethynylene rigid rod linkers in different chemical environments. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 1487-97	2.8	29
36	Synthesis and electron transfer studies of ruthenium-terpyridine-based dyads attached to nanostructured TiO ₂ . <i>Inorganic Chemistry</i> , 2007 , 46, 638-51	5.1	60
35	Quantum Chemical Calculations of the Influence of Anchor-Cum-Spacer Groups on Femtosecond Electron Transfer Times in Dye-Sensitized Semiconductor Nanocrystals. <i>Journal of Chemical Theory and Computation</i> , 2006 , 2, 441-51	6.4	238
34	Spacer and anchor effects on the electronic coupling in ruthenium-bis-terpyridine dye-sensitized TiO ₂ nanocrystals studied by DFT. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 20513-25	3.4	112
33	Structures of tetrafluorocyclopropene, hexafluorocyclobutene, octafluorocyclopentene and related perfluoroalkene radical anions revealed by electron spin resonance spectroscopic and computational studies. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 6307-23	2.8	18
32	A 3.0 microsecond room temperature excited state lifetime of a bistridentate Ru(II)-polypyridine complex for rod-like molecular arrays. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12616-7	16.4	174
31	Photochemistry of bromofluorobenzenes. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 7045-56	2.8	33
30	DFT study of bare and dye-sensitized TiO ₂ clusters and nanocrystals. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 3214-3234	2.1	212
29	Development of the ReaxFF reactive force field for mechanistic studies of catalytic selective oxidation processes on BiMoO _x . <i>Topics in Catalysis</i> , 2006 , 38, 93	2.3	89
28	Density functional theory study of NO adsorbed in A-zeolite. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7948-51	3.4	7
27	Calculated structural and electronic interactions of the ruthenium dye N3 with a titanium dioxide nanocrystal. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11918-24	3.4	175

26	Phosphonic acid adsorption at the TiO ₂ anatase (101) surface investigated by periodic hybrid HF-DFT computations. <i>Surface Science</i> , 2005 , 582, 49-60	1.8	156
25	Direct ESR evidence for SH ₂ type reaction of methyl radical with methylsilane and methylgermane in a low temperature solid: A deuterium labeling study. <i>Chemical Physics Letters</i> , 2005 , 410, 1-5	2.5	4
24	Anchor group influence on molecule-metal oxide interfaces: Periodic hybrid DFT study of pyridine bound to TiO ₂ via carboxylic and phosphonic acid. <i>Chemical Physics Letters</i> , 2005 , 415, 375-380	2.5	130
23	Photodissociation of bromobenzene, dibromobenzene, and 1,3,5-tribromobenzene. <i>Journal of Chemical Physics</i> , 2004 , 120, 6502-9	3.9	40
22	Multireference calculations of the phosphorescence and photodissociation of chlorobenzene. <i>Journal of Chemical Physics</i> , 2004 , 121, 11000-6	3.9	24
21	Theoretical Study of the Fast Photodissociation Channels of the Monohalobenzenes. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 2339-2345	2.8	52
20	Theoretical study of the photodissociation of low lying excited states of hydrogen peroxide. <i>Molecular Physics</i> , 2004 , 102, 2575-2584	1.7	11
19	Bi-isonicotinic acid on rutile (110): calculated molecular and electronic structure. <i>Surface Science</i> , 2003 , 529, 47-58	1.8	35
18	Structural study of adsorption of isonicotinic acid and related molecules on rutile TiO ₂ (110) I: XAS and STM. <i>Surface Science</i> , 2003 , 540, 39-54	1.8	50
17	The Smallest Possible Nanocrystals of Semiconducting Oxides. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3336-3339	3.4	63
16	Electron dynamics within Ru-2,2'-bipyridine complexes: An N1s core level excitation study. <i>Chemical Physics</i> , 2002 , 285, 167-176	2.3	17
15	Quantum chemical prediction of the adsorption conformations and dynamics at HCOOH-covered ZnO(1010) surfaces. <i>International Journal of Quantum Chemistry</i> , 2002 , 89, 172-180	2.1	41
14	Experimental evidence for sub-3-fs charge transfer from an aromatic adsorbate to a semiconductor. <i>Nature</i> , 2002 , 418, 620-3	50.4	321
13	Electronic interactions between aromatic adsorbates and metal oxide substrates calculated from first principles. <i>Chemical Physics Letters</i> , 2002 , 364, 469-474	2.5	58
12	PES Studies of Ru(dcbpyH ₂) ₂ (NCS) ₂ Adsorption on Nanostructured ZnO for Solar Cell Applications. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 10102-10107	3.4	101
11	Shake-up and shake-off excitations with associated electron losses in X-ray studies of proteins. <i>Protein Science</i> , 2001 , 10, 2480-4	6.3	29
10	Triarylamine on Nanocrystalline TiO ₂ Studied in Its Reduced and Oxidized State by Photoelectron Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 7182-7187	3.4	12
9	INDO calculations of small copper clusters and CO adsorbed on copper(100) surfaces. <i>Journal of Computational Chemistry</i> , 2000 , 21, 1221-1228	3.5	2

8	Binding of bi-isonicotinic acid to anatase TiO ₂ (1 0 1). <i>Solar Energy Materials and Solar Cells</i> , 2000 , 63, 139-148	6.4	49
7	Periodic Hartree-Fock study of the adsorption of formic acid on ZnO(1010). <i>Chemical Physics Letters</i> , 2000 , 321, 302-308	2.5	60
6	N 1s x-ray absorption study of the bonding interaction of bi-isonicotinic acid adsorbed on rutile TiO ₂ (110). <i>Journal of Chemical Physics</i> , 2000 , 112, 3945-3948	3.9	66
5	Quantum Chemical Study of Photoinjection Processes in Dye-Sensitized TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 10348-10351	3.4	309
4	XPS studies of Ru-polypyridine complexes for solar cell applications. <i>Journal of Chemical Physics</i> , 1999 , 111, 2744-2750	3.9	82
3	Adsorption of bi-isonicotinic acid on rutile TiO ₂ (110). <i>Journal of Chemical Physics</i> , 1999 , 110, 5913-5918	3.9	159
2	Periodic INDO calculations of organic adsorbates on a TiO ₂ surface. <i>International Journal of Quantum Chemistry</i> , 1998 , 70, 1055-1066	2.1	47
1	Site-selective participant decay of core-excited butadiene. <i>Journal of Chemical Physics</i> , 1996 , 105, 10719-10724	3.0	42