

# Andreas Steffen

## List of Publications by Citations

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67  
papers

3,050  
citations

31  
h-index

54  
g-index

71  
ext. papers

3,494  
ext. citations

7.5  
avg, IF

5.13  
L-index

#	Paper	IF	Citations
67	Experimental and theoretical studies of the photophysical properties of 2- and 2,7-functionalized pyrene derivatives. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13349-62	16.4	229
66	C-F activation of fluorinated arenes using NHC-stabilized nickel(0) complexes: selectivity and mechanistic investigations. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 9304-17	16.4	207
65	Synthesis of 2- and 2,7-functionalized pyrene derivatives: an application of selective C-H borylation. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 5022-35	4.8	149
64	Catalytic C-C Coupling Reactions at Nickel by C-B Activation of a Pyrimidine in the Presence of a C-F Bond: The Crucial Role of Highly Reactive Fluoro Complexes. <i>Organometallics</i> , <b>2005</b> , 24, 4057-4064	3.8	127
63	Optical and electronic properties of air-stable organoboron compounds with strongly electron-accepting bis(fluoromesityl)boryl groups. <i>Chemical Science</i> , <b>2015</b> , 6, 308-321	9.4	116
62	Near-IR phosphorescent ruthenium(II) and iridium(III) perylene bisimide metal complexes. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1570-3	16.4	113
61	D-πA triarylboron compounds with tunable push-pull character achieved by modification of both the donor and acceptor moieties. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 177-90	4.8	105
60	Dibenzometallacyclopentadienes, boroles and selected transition metal and main group heterocyclopentadienes: Synthesis, catalytic and optical properties. <i>Coordination Chemistry Reviews</i> , <b>2010</b> , 254, 1950-1976	23.2	97
59	Selective Photocatalytic C-F Borylation of Polyfluoroarenes by Rh/Ni Dual Catalysis Providing Valuable Fluorinated Arylboronate Esters. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 17612-17623	16.4	87
58	A Cyclic Alkyl(amino)carbene as Two-Atom Chromophore Leading to the First Phosphorescent Linear Cu Complexes. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 2206-2216	4.8	86
57	Cuprophilic interactions in highly luminescent dicopper(i)-NHC-picoyl complexes - fast phosphorescence or TADF?. <i>Chemical Communications</i> , <b>2016</b> , 52, 2932-5	5.8	84
56	Reactivity of a palladium fluoro complex towards silanes and Bu <sub>3</sub> SnCH=CH <sub>2</sub> : Catalytic derivatisation of pentafluoropyridine based on carbon-fluorine bond activation reactions. <i>Dalton Transactions</i> , <b>2006</b> , 5118-23	4.3	84
55	Syntheses, structures, two-photon absorption cross-sections and computed second hyperpolarisabilities of quadrupolar A <sub>2</sub> systems containing E-dimesitylborylethenyl acceptors. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 7532		76
54	Cyclic (Amino)(aryl)carbenes Enter the Field of Chromophore Ligands: Expanded System Leads to Unusually Deep Red Emitting Cu Compounds. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 8897-8909	16.4	73
53	Pyrene Molecular Orbital Shuffle-Controlling Excited State and Redox Properties by Changing the Nature of the Frontier Orbitals. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 13164-13180	4.8	70
52	The series of rare earth complexes [Ln <sub>2</sub> Cl <sub>6</sub> (4,4Rbipy)(py) <sub>6</sub> ], Ln=Y, Pr, Nd, Sm-Yb: a molecular model system for luminescence properties in MOFs based on LnCl <sub>3</sub> and 4,4Rbipyridine. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 17369-78	4.8	70
51	A deadly organometallic luminescent probe: anticancer activity of a ReI bisquinoline complex. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 2496-507	4.8	67

50	Metal-organic framework luminescence in the yellow gap by codoping of the homoleptic imidazolate [B][Ba(Im) <sub>2</sub> ] with divalent europium. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 6896-902	16.4	66
49	2,5-Bis(p-R-arylethynyl)rhodacyclopentadienes show intense fluorescence: denying the presence of a heavy atom. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 2349-53	16.4	63
48	Stimulus-Triggered Formation of an Anion-Cation Exciplex in Copper(I) Complexes as a Mechanism for Mechanochromic Phosphorescence. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 13671-13675	16.4	54
47	Oxidative Addition of XB <sub>3</sub> (X = C, N, O) Bonds to [Ir(PMe <sub>3</sub> ) <sub>4</sub> ]Cl and Catalytic Hydration of Acetonitrile Using its Peroxo Derivative, [Ir(O <sub>2</sub> )(PMe <sub>3</sub> ) <sub>4</sub> ]Cl, as Catalyst Precursor. <i>Organometallics</i> , <b>2009</b> , 28, 2904-2914	3.8	53
46	Unexpected luminescence behavior of coinage metal $\eta^5$ -diborene complexes. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 4362-6	16.4	52
45	Unprecedented Efficient Structure Controlled Phosphorescence of Silver(I) Clusters Stabilized by Carba-closo-dodecaboranylethynyl Ligands. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10507-11	16.4	46
44	Synthesis and photoluminescence properties of an unprecedented phosphinine-CuBr <sub>2</sub> cluster. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 9855-9	5.1	41
43	Synthesis, Structures, and Photophysical Properties of a Series of Rare Near-IR Emitting Copper(I) Complexes. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 8996-9008	5.1	41
42	Routes to unique palladium A-frame complexes with a bridging fluoro-ligand. <i>Dalton Transactions</i> , <b>2005</b> , 3331-6	4.3	41
41	Strongly Phosphorescent Transition Metal $\pi$ -Complexes of Boron-Boron Triple Bonds. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 4887-4893	16.4	38
40	Cu-F Interactions between Cationic Linear N-Heterocyclic Carbene Copper(I) Pyridine Complexes and Their Counterions Greatly Enhance Blue Luminescence Efficiency. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 5433-5445	5.1	37
39	Luminescent copper(I) halide and pseudohalide phenanthroline complexes revisited: simple structures, complicated excited state behavior. <i>Dalton Transactions</i> , <b>2015</b> , 44, 6944-60	4.3	37
38	Palladium fluoro complexes: useful tools to access organometallic metallamacrocycles. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 8674-8	16.4	35
37	White light emission of IFP-1 by in situ co-doping of the MOF pore system with Eu <sup>3+</sup> and Tb <sup>3+</sup> . <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 4623-4631	7.1	34
36	Near-IR Phosphorescent Ruthenium(II) and Iridium(III) Perylene Bisimide Metal Complexes. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 1590-1593	3.6	31
35	Near-Infrared Quadrupolar Chromophores Combining Three-Coordinate Boron-Based Superdonor and Superacceptor Units. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6449-6454	16.4	30
34	Fluorescence in rhoda- and iridacyclopentadienes neglecting the spin-orbit coupling of the heavy atom: the ligand dominates. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 7055-69	5.1	29
33	Near-Infrared Luminescence and Inner Filter Effects of Lanthanide Coordination Polymers with 1,2-Di(4-pyridyl)ethylene. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 7396-406	5.1	27

32	Unerwartetes Lumineszenzverhalten von M <sub>2</sub> Zmetall-Diboren-Komplexen. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 4436-4440	3.6	27
31	Synthesis, photophysical and electronic properties of tetra-donor- or acceptor-substituted -perylene displaying four reversible oxidations or reductions. <i>Chemical Science</i> , <b>2019</b> , 10, 7516-7534	9.4	26
30	2[Bi <sub>2</sub> Cl <sub>6</sub> (pyz) <sub>4</sub> ]: a 2D-pyrazine coordination polymer as soft host lattice for the luminescence of the lanthanide ions Sm <sup>3+</sup> , Eu <sup>3+</sup> , Tb <sup>3+</sup> , and Dy <sup>3+</sup> . <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 7197-203	5.1	26
29	CBI Activation of Fluoroarenes: Synthesis, Structure, and Luminescence Properties of Copper(I) and Gold(I) Complexes Bearing 2-Phenylpyridine Ligands. <i>Organometallics</i> , <b>2016</b> , 35, 629-640	3.8	26
28	Bite-angle bending as a key for understanding group-10 metal reactivity of d-[M(NHC)] complexes with sterically modest NHC ligands. <i>Chemical Science</i> , <b>2015</b> , 6, 1426-1432	9.4	25
27	Regiospecific formation and unusual optical properties of 2,5-bis(arylethynyl)rhodacyclopentadienes: a new class of luminescent organometallics. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 3652-66	4.8	23
26	Computer-Aided Design of Luminescent Linear N-Heterocyclic Carbene Copper(I) Pyridine Complexes. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 5446-5456	5.1	22
25	Palladium Fluoro Complexes: Useful Tools To Access Organometallic Metallamacrocycles. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 8828-8832	3.6	21
24	Reductive Coupling of Diynes at Rhodium Gives Fluorescent Rhodacyclopentadienes or Phosphorescent Rhodium 2,2RBiphenyl Complexes. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 10523-32	4.8	20
23	Silver(I) Clusters with Carba-closo-dodecaboranylethynyl Ligands: Synthesis, Structure, and Phosphorescence. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 11684-11693	4.8	19
22	Synthesis and fluxional behaviour of novel chloroborole dimers. <i>Chemical Communications</i> , <b>2016</b> , 52, 9707-10	5.8	19
21	Highly efficient cold-white light emission in a [AuCuCl(P?N)]PF type salt. <i>Dalton Transactions</i> , <b>2017</b> , 46, 3438-3442	4.3	17
20	2,5-Bis(p-R-arylethynyl)rhodacyclopentadienes Show Intense Fluorescence: Denying the Presence of a Heavy Atom. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 2399-2403	3.6	17
19	Ungewöhnlich effiziente strukturdirigierte Phosphoreszenz in Silber(I)-Clustern, realisiert mit Carba-closo-dodecaboranylethynyl-Liganden. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10663-10667	3.6	17
18	Simple Synthetic Routes to Carbene-M-Amido (M=Cu, Ag, Au) Complexes for Luminescence and Photocatalysis Applications. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 11904-11911	4.8	15
17	Dreifach koordiniertes Bor als Superdonor und -akzeptor für quadrupolare Nahinfrarot-Chromophore. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6516-6521	3.6	14
16	A combined experimental and theoretical study on the isomers of 2,3,4,5-tetracarba-nido-hexaborane(6) derivatives and their photophysical properties. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 210-8	4.8	13
15	Implementation of a new Cryopad on the diffractometer POLI at MLZ. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 105108	1.7	13

14	Enhanced $\pi$ -Back-Donation as a Way to Higher Coordination Numbers in d [M(NHC)] Complexes: A DFT Study. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 614-622	4.8	12
13	Photoactivated cell-killing involving a low molecular weight, donor-acceptor diphenylacetylene. <i>Chemical Science</i> , <b>2019</b> , 10, 4673-4683	9.4	10
12	Copper(I) Phosphinooxazoline Complexes: Impact of the Ligand Substitution and Steric Demand on the Electrochemical and Photophysical Properties. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 2675-2684	4.8	10
11	Tandem fluorescence and Raman (fluorRaman) characterisation of a novel photosensitiser in colorectal cancer cell line SW480. <i>Analyst, The</i> , <b>2018</b> , 143, 6113-6120	5	10
10	Carba-closo-dodecaboranylethynyl ligands facilitating luminescent reversed charge-transfer excited states in gold/silver complexes. <i>Chemical Communications</i> , <b>2019</b> , 55, 9351-9354	5.8	8
9	Stimulus-induzierte Anion-Kation-Exciplexbildung in Kupfer(I)-Komplexen als Mechanismus für mechanochrome Phosphoreszenz. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 13860-13864	3.6	7
8	Linear Carbene Pyridine Copper Complexes with Sterically Demanding ,RBis(trityl)imidazolydene: Syntheses, Molecular Structures, and Photophysical Properties. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 18529-18543	5.1	7
7	An unexpected transmetalation intermediate: isolation and structural characterization of a solely CH3 bridged di-copper(i) complex. <i>Chemical Communications</i> , <b>2016</b> , 52, 5019-22	5.8	6
6	Synthesis of 3,3,3-Trifluoropropyl Substituted Cyclopentadienes and Their Zirconocene Derivatives: Catalytic Applications in the Polymerization of Ethylene. <i>Organometallics</i> , <b>2007</b> , 26, 5289-5294	3.8	6
5	Direct observation of $\eta$ -benzyne formation in photochemical hexadehydro-Diels-Alder ( $\eta$ -HDDA) reactions. <i>Chemical Science</i> , <b>2020</b> , 11, 9198-9208	9.4	6
4	Convenient synthetic access to fluorescent rhodacyclopentadienes via ligand exchange reactions. <i>Journal of Organometallic Chemistry</i> , <b>2017</b> , 847, 184-192	2.3	5
3	Design of Efficient Emissive Materials <b>2019</b> , 466-466		4
2	Ditopic Phosphide Oxide Group: A Rigidifying Lewis Base to Switch Luminescence and Reactivity of a Disilver Complex. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 15045-15055	16.4	1
1	Molecular Orbital Theory Teaching a Difficult Chemistry Topic Using a CSCL Approach in a First-Year University Course. <i>Education Sciences</i> , <b>2021</b> , 11, 485	2.2	0