Bernd SchÃ¶llhorn

List of Publications by Year
in descending order

60 papers	1,654 citations	236925 25 h-index	302126 39 g-index
60 all docs	60 docs citations	60 times ranked	1965 citing authors

#	Article	IF	Citations
1	Halogen bonding effect on electrochemical anion oxidation in ionic liquids. Organic and Biomolecular Chemistry, 2021, 19, 7587-7593.	2.8	3
2	Bright green fluorescence of Asian paper wasp nests. Journal of the Royal Society Interface, 2021, 18, 20210418.	3.4	4
3	Asymmetric and Anharmonic Electrode Kinetics: Evaluation of a Model for Electron Transfer with Concerted Rupture of Weak, Inner Shell Interactions. ChemistrySelect, 2021, 6, 13331-13335.	1.5	1
4	Electrochemically driven interfacial halogen bonding on self-assembled monolayers for anion detection. Chemical Communications, 2019, 55, 1983-1986.	4.1	25
5	Electrochemical activation of halogen bonding. Current Opinion in Electrochemistry, 2019, 15, 89-96.	4.8	21
6	Electrochemical Activation of TTFâ€Based Halogen Bond Donors: A Powerful, Selective and Sensitive Analytical Tool for Probing a Weak Interaction in Complex Media. ChemistrySelect, 2018, 3, 8874-8880.	1.5	14
7	Crystal Structure and Corrosion Inhibition Properties of Ferrocenyl- and Phenylendiamine-Iminomethylphenoxy Cobalt Complexes. Journal of Chemical Crystallography, 2017, 47, 40-46.	1.1	5
8	On the decisive role of the sulfur-based anchoring group in the electro-assisted formation of self-assembled monolayers on gold. Electrochimica Acta, 2017, 257, 165-171.	5.2	13
9	Comparative study of non-covalent interactions between cationic N-phenylviologens and halides by electrochemistry and NMR: the halogen bonding effect. Faraday Discussions, 2017, 203, 301-313.	3.2	12
10	Electrochemical activation of a tetrathiafulvalene halogen bond donor in solution. Physical Chemistry Chemical Physics, 2016, 18, 15867-15873.	2.8	37
11	Characterization and Subsequent Reactivity of an Fe-Peroxo Porphyrin Generated by Electrochemical Reductive Activation of O₂. Inorganic Chemistry, 2016, 55, 12204-12210.	4.0	31
12	Electroâ€assisted Deposition of Binary Selfâ€Assembled 1,2â€Dithiolane Monolayers on Gold with Predictable Composition. ChemElectroChem, 2016, 3, 1422-1428.	3.4	9
13	Self-assembled monolayer formation of a (N₅)Fe(<scp>ii</scp>) complex on gold electrodes: electrochemical properties and coordination chemistry on a surface. Dalton Transactions, 2016, 45, 19053-19061.	3.3	1
14	Unexpected currentâ€“voltage characteristics of mechanically modulated atomic contacts with the presence of molecular junctions in an electrochemically assistedâ€“MCBJ. Nano Research, 2016, 9, 560-570.	10.4	32
15	Single step synthesis of an ethynylferrocenyl-[4]-ferrocenophane. Tetrahedron Letters, 2015, 56, 4537-4540.	1.4	2
16	Rational Design of a Redoxâ€Labeled Chiral Target for an Enantioselective Aptamerâ€Based Electrochemical Binding Assay. Chemistry - A European Journal, 2014, 20, 2953-2959.	3.3	9
17	Directed synthesis of a halogen-bonded open porphyrin network. CrystEngComm, 2014, 16, 10380-10384.	2.6	32
18	Electrochemical controlling and monitoring of halogen bond formation in solution. Chemical Communications, 2014, 50, 14616-14619.	4.1	22

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19	Synthesis and characterization of oligonucleotide conjugates bearing electroactive labels. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 955-958.	2.2	8
20	Switching On/Off the Chemisorption of Thioctic-Based Self-Assembled Monolayers on Gold by Applying a Moderate Cathodic/Anodic Potential. Langmuir, 2013, 29, 5360-5368.	3.5	41
21	Simple and Highly Enantioselective Electrochemical Aptamer-Based Binding Assay for Trace Detection of Chiral Compounds. Analytical Chemistry, 2012, 84, 5415-5420.	6.5	46
22	Thiophene-based electrochemically active probes for selective calcium detection. Electrochimica Acta, 2012, 63, 228-231.	5.2	15
23	An organometallic derivative of a BAPTA ligand: towards electrochemically controlled cation release in biocompatible media. Chemical Communications, 2011, 47, 5199.	4.1	10
24	Electrochemically active phenylenediamine probes for transition metal cation detection. New Journal of Chemistry, 2011, 35, 709.	2.8	15
25	Do Molecular Conductances Correlate with Electrochemical Rate Constants? Experimental Insights. Journal of the American Chemical Society, 2011, 133, 7509-7516.	13.7	114
26	Ïƒ-Hole bonding in 15N-labeled N-Benzyl-N-(4-iodo-tetrafluorobenzyl)-amine: Synthesis, crystal structure and solid-state structure calculations. Journal of Molecular Structure, 2011, 990, 32-36.	3.6	2
27	Electrochemically Assisted Fabrication of Metal Atomic Wires and Molecular Junctions by MCBJ and STMâ€BJ Methods. ChemPhysChem, 2010, 11, 2745-2755.	2.1	38
28	Electroactive Benzothiazole Hydrazones and Their [Mo₆O₁₉]^{2â^'} Derivatives: Promising Building Blocks for Conducting Molecular Materials. Chemistry - A European Journal, 2010, 16, 8390-8399.	3.3	32
29	Microchip for ultrafast voltammetry. Electrochemistry Communications, 2010, 12, 897-900.	4.7	18
30	The fabrication and characterization of adjustable nanogaps between gold electrodes on chip for electrical measurement of single molecules. Nanotechnology, 2010, 21, 274012.	2.6	38
31	Ultrasound-promoted aromatic nucleophilic substitution of dichlorobenzene iron(II) complexes. Tetrahedron Letters, 2009, 50, 1720-1722.	1.4	5
32	Electrochemically Driven Release of Picomole Amounts of Calcium Ions with Temporal and Spatial Resolution. Angewandte Chemie - International Edition, 2008, 47, 5211-5214.	13.8	25
33	Direct Monitoring of Ultrafast Redox Commutation at the Nanosecond and Nanometer Scales by Ultrafast Voltammetry: From Molecular Wires to Cation Releasing Systems. Israel Journal of Chemistry, 2008, 48, 203-214.	2.3	21
34	Revealing molecular self-assembly and geometry of non-covalent halogen bonding by solid-state NMR spectroscopy. Chemical Communications, 2008, , 5981.	4.1	42
35	Theory and Practice of Enzyme Bioaffinity Electrodes. Direct Electrochemical Product Detection. Journal of the American Chemical Society, 2008, 130, 7259-7275.	13.7	38
36	Ferrocenyl Oligo(phenyleneâ€vinylene) Thiols for the Construction of Selfâ€Assembled Monolayers. European Journal of Inorganic Chemistry, 2007, 2007, 4035-4042.	2.0	14

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37	Ultrafast Voltammetry for Probing Interfacial Electron Transfer in Molecular Wires. ChemPhysChem, 2007, 8, 1321-1329.	2.1	78
38	Intramolecular charge effects in the electrochemical oxidation of aminoxyl radicals. New Journal of Chemistry, 2006, 30, 430.	2.8	26
39	Self-assembly of nitroxide radicals via halogen bondingâ€"directional NOâ‹¯I interactions. Tetrahedron Letters, 2006, 47, 1249-1252.	1.4	75
40	Stereocontrolled Formation of Three Contiguous Stereogenic Centers by Free Radical Cyclization â€“ Synthesis of (+)-Iridomyrmecin and (â€“)-Iso-iridomyrmecin â€“ Formal Synthesis of Î´-Skythantine. European Journal of Organic Chemistry, 2006, 2006, 901-908.	2.4	13
41	First molecular self-assembly of 1,4-diiodo-tetrafluoro-benzene and a ketone via (Oâ‹¯I) non-covalent halogen bonds. Journal of Molecular Structure, 2005, 737, 103-107.	3.6	55
42	Dense Monolayers of Metal-Chelating Ligands Covalently Attached to Carbon Electrodes Electrochemically and Their Useful Application in Affinity Binding of Histidine-Tagged Proteins. Langmuir, 2005, 21, 3362-3375.	3.5	101
43	The tailoring of crystal structures via the self-assembly of organic coordination compounds by Nâ‹¯I non-covalent halogen bonds: co-crystals of sterically hindered N-heterocycles and 1,4-diiodo-tetrafluorobenzene. CrystEngComm, 2005, 7, 302-308.	2.6	62
44	A convenient preparation of 2,3,5,6-tetrafluoro-4-iodo-benzaldehyde and its application in porphyrin synthesis. Journal of Fluorine Chemistry, 2004, 125, 1379-1382.	1.7	32
45	Self-assembly via (Nâ‹¯I) non-covalent bonds between 1,4-diiodo-tetrafluoro-benzene and a tetra-imino ferrocenophane. Journal of Molecular Structure, 2004, 691, 79-84.	3.6	23
46	Determination of horseradish peroxidase and a peroxidase-like iron porphyrin at a Nafion-modified electrode. Analyst, The, 2001, 126, 887-891.	3.5	12
47	Electrochemical Reduction in an Aprotic Medium of New Functionalized Amphiphilic Molecules Derived from Sugars: Stereoselective Pinacolization and an Example of a Glycosidic Carbon-Oxygen Bond Cleavage. European Journal of Organic Chemistry, 2000, 2000, 813-821.	2.4	4
48	Competitive assay of 2,4-dichlorophenoxyacetic acid using a polymer imprinted with an electrochemically active tracer closely related to the analyte. Analyst, The, 2000, 125, 665-667.	3.5	18
49	Distance Dependence of Photoinduced Electron Transfer in Metalloporphyrin Dimersâ€. Journal of Physical Chemistry A, 1999, 103, 10540-10552.	2.5	30
50	Electrochemical behaviour of new electroreducible amphiphilic saccharide derivatives II: Electroreduction in protic media. New Journal of Chemistry, 1999, 23, 1171-1175.	2.8	1
51	Simultaneous detection of three drugs labeled by cationic metal complexes at a nafion-loaded carbon paste electrode. Talanta, 1999, 48, 201-208.	5.5	17
52	Redox labeling of two antiepileptic drugs with metallocenes and their simultaneous detection by a Nafion-modified electrode. Applied Organometallic Chemistry, 1998, 12, 59-65.	3.5	10
53	Influence of peripheral electron-withdrawing substituents on the conductivity of zinc phthalocyanine in the presence of gases. Part 1: reducing gases. Thin Solid Films, 1998, 326, 245-250.	1.8	101
54	Influence of peripheral electron-withdrawing substituents on the conductivity of zinc phthalocyanine in the presence of gases. Part 2: oxidizing gases. Thin Solid Films, 1998, 333, 235-239.	1.8	56

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55	Synthesis and electrochemical behaviour of new electroreducible amphiphilic saccharide derivatives. New Journal of Chemistry, 1998, 22, 1469-1477.	2.8	3
56	Subfemtomolar Determination of Alkaline Phosphatase at a Disposable Screen-Printed Electrode Modified with a Perfluorosulfonated Ionomer Film. Analytical Chemistry, 1997, 69, 4688-4694.	6.5	66
57	Adsorption of Glycosidic Surfactants at the Mercury Electrode. Journal of Colloid and Interface Science, 1996, 184, 671-679.	9.4	7
58	Multiple 1,2-O,O-Shift oftert-Butyldiphenylsilyl Groups in Polyols. Angewandte Chemie International Edition in English, 1990, 29, 431-432.	4.4	52
59	Enantio- and Regiocontrolled Synthesis of a Central Ionophoric Antibiotic Building Block by Sequential Opening of Two Epoxide Rings with Cuprate Reagents. Angewandte Chemie International Edition in English, 1990, 29, 1476-1478.	4.4	16
60	Sensitive detection of halides and nitrate in organic and aqueous solvents via selective halogen bonding on TTFâ€SAM modified platinum electrodes.. ChemElectroChem, 0, , .	3.4	1