

Bernd SchÄgllhorn

List of Publications by Year in descending order

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60
papers

1,654
citations

236925

25
h-index

302126

39
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60
all docs

60
docs citations

60
times ranked

1965
citing authors

#	ARTICLE	IF	CITATIONS
1	Do Molecular Conductances Correlate with Electrochemical Rate Constants? Experimental Insights. <i>Journal of the American Chemical Society</i> , 2011, 133, 7509-7516.	13.7	114
2	Influence of peripheral electron-withdrawing substituents on the conductivity of zinc phthalocyanine in the presence of gases. Part 1: reducing gases. <i>Thin Solid Films</i> , 1998, 326, 245-250.	1.8	101
3	Dense Monolayers of Metal-Chelating Ligands Covalently Attached to Carbon Electrodes Electrochemically and Their Useful Application in Affinity Binding of Histidine-Tagged Proteins. <i>Langmuir</i> , 2005, 21, 3362-3375.	3.5	101
4	Ultrafast Voltammetry for Probing Interfacial Electron Transfer in Molecular Wires. <i>ChemPhysChem</i> , 2007, 8, 1321-1329.	2.1	78
5	Self-assembly of nitroxide radicals via halogen bonding—directional NO π interactions. <i>Tetrahedron Letters</i> , 2006, 47, 1249-1252.	1.4	75
6	Subfemtomolar Determination of Alkaline Phosphatase at a Disposable Screen-Printed Electrode Modified with a Perfluorosulfonated Ionomer Film. <i>Analytical Chemistry</i> , 1997, 69, 4688-4694.	6.5	66
7	The tailoring of crystal structures via the self-assembly of organic coordination compounds by N π non-covalent halogen bonds: co-crystals of sterically hindered N-heterocycles and 1,4-diiodo-tetrafluorobenzene. <i>CrystEngComm</i> , 2005, 7, 302-308.	2.6	62
8	Influence of peripheral electron-withdrawing substituents on the conductivity of zinc phthalocyanine in the presence of gases. Part 2: oxidizing gases. <i>Thin Solid Films</i> , 1998, 333, 235-239.	1.8	56
9	First molecular self-assembly of 1,4-diiodo-tetrafluoro-benzene and a ketone via (O π) non-covalent halogen bonds. <i>Journal of Molecular Structure</i> , 2005, 737, 103-107.	3.6	55
10	Multiple 1,2-O,O-Shift of tert-Butyldiphenylsilyl Groups in Polyols. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 431-432.	4.4	52
11	Simple and Highly Enantioselective Electrochemical Aptamer-Based Binding Assay for Trace Detection of Chiral Compounds. <i>Analytical Chemistry</i> , 2012, 84, 5415-5420.	6.5	46
12	Revealing molecular self-assembly and geometry of non-covalent halogen bonding by solid-state NMR spectroscopy. <i>Chemical Communications</i> , 2008, , 5981.	4.1	42
13	Switching On/Off the Chemisorption of Thioctic-Based Self-Assembled Monolayers on Gold by Applying a Moderate Cathodic/Anodic Potential. <i>Langmuir</i> , 2013, 29, 5360-5368.	3.5	41
14	Theory and Practice of Enzyme Bioaffinity Electrodes. Direct Electrochemical Product Detection. <i>Journal of the American Chemical Society</i> , 2008, 130, 7259-7275.	13.7	38
15	Electrochemically Assisted Fabrication of Metal Atomic Wires and Molecular Junctions by MCBJ and STM π BJ Methods. <i>ChemPhysChem</i> , 2010, 11, 2745-2755.	2.1	38
16	The fabrication and characterization of adjustable nanogaps between gold electrodes on chip for electrical measurement of single molecules. <i>Nanotechnology</i> , 2010, 21, 274012.	2.6	38
17	Electrochemical activation of a tetrathiafulvalene halogen bond donor in solution. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15867-15873.	2.8	37
18	A convenient preparation of 2,3,5,6-tetrafluoro-4-iodo-benzaldehyde and its application in porphyrin synthesis. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 1379-1382.	1.7	32

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19	Electroactive Benzothiazole Hydrazones and Their [Mo ₆ O ₁₉] ²⁻ Derivatives: Promising Building Blocks for Conducting Molecular Materials. <i>Chemistry - A European Journal</i> , 2010, 16, 8390-8399.	3.3	32
20	Directed synthesis of a halogen-bonded open porphyrin network. <i>CrystEngComm</i> , 2014, 16, 10380-10384.	2.6	32
21	Unexpected current-voltage characteristics of mechanically modulated atomic contacts with the presence of molecular junctions in an electrochemically assisted MCBJ. <i>Nano Research</i> , 2016, 9, 560-570.	10.4	32
22	Characterization and Subsequent Reactivity of an Fe-Peroxo Porphyrin Generated by Electrochemical Reductive Activation of O ₂ . <i>Inorganic Chemistry</i> , 2016, 55, 12204-12210.	4.0	31
23	Distance Dependence of Photoinduced Electron Transfer in Metalloporphyrin Dimers. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10540-10552.	2.5	30
24	Intramolecular charge effects in the electrochemical oxidation of aminoxyl radicals. <i>New Journal of Chemistry</i> , 2006, 30, 430.	2.8	26
25	Electrochemically Driven Release of Picomole Amounts of Calcium Ions with Temporal and Spatial Resolution. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5211-5214.	13.8	25
26	Electrochemically driven interfacial halogen bonding on self-assembled monolayers for anion detection. <i>Chemical Communications</i> , 2019, 55, 1983-1986.	4.1	25
27	Self-assembly via (N ⁻) non-covalent bonds between 1,4-diiodo-tetrafluoro-benzene and a tetra-imino ferrocenophane. <i>Journal of Molecular Structure</i> , 2004, 691, 79-84.	3.6	23
28	Electrochemical controlling and monitoring of halogen bond formation in solution. <i>Chemical Communications</i> , 2014, 50, 14616-14619.	4.1	22
29	Direct Monitoring of Ultrafast Redox Commutation at the Nanosecond and Nanometer Scales by Ultrafast Voltammetry: From Molecular Wires to Cation Releasing Systems. <i>Israel Journal of Chemistry</i> , 2008, 48, 203-214.	2.3	21
30	Electrochemical activation of halogen bonding. <i>Current Opinion in Electrochemistry</i> , 2019, 15, 89-96.	4.8	21
31	Competitive assay of 2,4-dichlorophenoxyacetic acid using a polymer imprinted with an electrochemically active tracer closely related to the analyte. <i>Analyst</i> , 2000, 125, 665-667.	3.5	18
32	Microchip for ultrafast voltammetry. <i>Electrochemistry Communications</i> , 2010, 12, 897-900.	4.7	18
33	Simultaneous detection of three drugs labeled by cationic metal complexes at a nafion-loaded carbon paste electrode. <i>Talanta</i> , 1999, 48, 201-208.	5.5	17
34	Enantio- and Regiocontrolled Synthesis of a Central Ionophoric Antibiotic Building Block by Sequential Opening of Two Epoxide Rings with Cuprate Reagents. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 1476-1478.	4.4	16
35	Electrochemically active phenylenediamine probes for transition metal cation detection. <i>New Journal of Chemistry</i> , 2011, 35, 709.	2.8	15
36	Thiophene-based electrochemically active probes for selective calcium detection. <i>Electrochimica Acta</i> , 2012, 63, 228-231.	5.2	15

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37	Ferrocenyl Oligo(phenylenevinylene) Thiols for the Construction of Self-Assembled Monolayers. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 4035-4042.	2.0	14
38	Electrochemical Activation of TTF-Based Halogen Bond Donors: A Powerful, Selective and Sensitive Analytical Tool for Probing a Weak Interaction in Complex Media. <i>ChemistrySelect</i> , 2018, 3, 8874-8880.	1.5	14
39	Stereocontrolled Formation of Three Contiguous Stereogenic Centers by Free Radical Cyclization – Synthesis of (+)-Iridomyrmecin and (–)-Iso-iridomyrmecin – Formal Synthesis of 1-Skythantine. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 901-908.	2.4	13
40	On the decisive role of the sulfur-based anchoring group in the electro-assisted formation of self-assembled monolayers on gold. <i>Electrochimica Acta</i> , 2017, 257, 165-171.	5.2	13
41	Determination of horseradish peroxidase and a peroxidase-like iron porphyrin at a Nafion-modified electrode. <i>Analyst</i> , 2001, 126, 887-891.	3.5	12
42	Comparative study of non-covalent interactions between cationic N-phenylviologens and halides by electrochemistry and NMR: the halogen bonding effect. <i>Faraday Discussions</i> , 2017, 203, 301-313.	3.2	12
43	Redox labeling of two antiepileptic drugs with metallocenes and their simultaneous detection by a Nafion-modified electrode. <i>Applied Organometallic Chemistry</i> , 1998, 12, 59-65.	3.5	10
44	An organometallic derivative of a BAPTA ligand: towards electrochemically controlled cation release in biocompatible media. <i>Chemical Communications</i> , 2011, 47, 5199.	4.1	10
45	Rational Design of a Redox-Labeled Chiral Target for an Enantioselective Aptamer-Based Electrochemical Binding Assay. <i>Chemistry - A European Journal</i> , 2014, 20, 2953-2959.	3.3	9
46	Electro-Assisted Deposition of Binary Self-Assembled 1,2-Dithiolane Monolayers on Gold with Predictable Composition. <i>ChemElectroChem</i> , 2016, 3, 1422-1428.	3.4	9
47	Synthesis and characterization of oligonucleotide conjugates bearing electroactive labels. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 955-958.	2.2	8
48	Adsorption of Glycosidic Surfactants at the Mercury Electrode. <i>Journal of Colloid and Interface Science</i> , 1996, 184, 671-679.	9.4	7
49	Ultrasound-promoted aromatic nucleophilic substitution of dichlorobenzene iron(II) complexes. <i>Tetrahedron Letters</i> , 2009, 50, 1720-1722.	1.4	5
50	Crystal Structure and Corrosion Inhibition Properties of Ferrocenyl- and Phenylendiamine-Iminomethylphenoxy Cobalt Complexes. <i>Journal of Chemical Crystallography</i> , 2017, 47, 40-46.	1.1	5
51	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. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 813-821.	2.4	4
52	Bright green fluorescence of Asian paper wasp nests. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210418.	3.4	4
53	Synthesis and electrochemical behaviour of new electroreducible amphiphilic saccharide derivatives. <i>New Journal of Chemistry</i> , 1998, 22, 1469-1477.	2.8	3
54	Halogen bonding effect on electrochemical anion oxidation in ionic liquids. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 7587-7593.	2.8	3

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55	Ïf-Hole bonding in 15N-labeled N-Benzyl-N-(4-iodo-tetrafluorobenzyl)-amine: Synthesis, crystal structure and solid-state structure calculations. <i>Journal of Molecular Structure</i> , 2011, 990, 32-36.	3.6	2
56	Single step synthesis of an ethynylferrocenyl-[4]-ferrocenophane. <i>Tetrahedron Letters</i> , 2015, 56, 4537-4540.	1.4	2
57	Electrochemical behaviour of new electroreducible amphiphilic saccharide derivatives II: Electroreduction in protic media. <i>New Journal of Chemistry</i> , 1999, 23, 1171-1175.	2.8	1
58	Self-assembled monolayer formation of a (N ₅)Fe complex on gold electrodes: electrochemical properties and coordination chemistry on a surface. <i>Dalton Transactions</i> , 2016, 45, 19053-19061.	3.3	1
59	Asymmetric and Anharmonic Electrode Kinetics: Evaluation of a Model for Electron Transfer with Concerted Rupture of Weak, Inner Shell Interactions. <i>ChemistrySelect</i> , 2021, 6, 13331-13335.	1.5	1
60	Sensitive detection of halides and nitrate in organic and aqueous solvents via selective halogen bonding on TTF@SAM modified platinum electrodes.. <i>ChemElectroChem</i> , 0, , .	3.4	1