

PDâ€™Dr Silke Behrens

List of Publications by Year in descending order

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86
papers

2,383
citations

186265

28
h-index

223800

46
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93
all docs

93
docs citations

93
times ranked

3456
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of functional magnetic nanocomposites and hybrid materials: recent progress and future directions. <i>Nanoscale</i> , 2011, 3, 877-892.	5.6	228
2	Silver Nanoparticle and Nanowire Formation by Microtubule Templates. <i>Chemistry of Materials</i> , 2004, 16, 3085-3090.	6.7	138
3	Nanoscale Particle Arrays Induced by Highly Ordered Protein Assemblies. <i>Advanced Materials</i> , 2002, 14, 1621-1625.	21.0	113
4	Magnetic nanocomposites. <i>Current Opinion in Biotechnology</i> , 2016, 39, 89-96.	6.6	108
5	Synthesis and Structure of the Nanoclusters [Hg ₃₂ Se ₁₄ (SePh) ₃₆], [Cd ₃₂ Se ₁₄ (SePh) ₃₆ (PPh ₃) ₄], [P(Et) ₂ (Ph)C ₄ H ₈ OSiMe ₃] ₅ -[Cd ₁₈ I ₁₇ (PSiMe ₃) ₁₂] ₄ , and [N(Et) ₃ C ₄ H ₈ OSiMe ₃] ₅ [Cd ₁₈ I ₁₇ (PSiMe ₃) ₁₂]. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 2215-2218.	4.4	97
6	Access to highly active Ni&Pd bimetallic nanoparticle catalysts for C&C coupling reactions. <i>Catalysis Science and Technology</i> , 2016, 6, 5567-5579.	4.1	73
7	Material development for dye solar modules: results from an integrated approach. <i>Progress in Photovoltaics: Research and Applications</i> , 2008, 16, 489-501.	8.1	66
8	Catalytic platinum layers for dye solar cells: A comparative study. <i>Thin Solid Films</i> , 2006, 511-512, 342-348.	1.8	65
9	Assembly of Nanoparticle Ring Structures Based on Protein Templates. <i>Advanced Materials</i> , 2006, 18, 284-289.	21.0	63
10	Constrained Synthesis and Organization of Catalytically Active Metal Nanoparticles by Self-Assembled Protein Templates. <i>Advanced Materials</i> , 2009, 21, 3515-3519.	21.0	61
11	Role of the Platinum Nanoclusters in the Iodide/Triiodide Redox System of Dye Solar Cells. <i>Journal of Cluster Science</i> , 2007, 18, 141-155.	3.3	59
12	Highly Active Bimetallic Nickel&Palladium Alloy Nanoparticle Catalyzed Suzuki&Miyaura Reactions. <i>ChemCatChem</i> , 2015, 7, 1806-1812.	3.7	55
13	Synthesis of inorganic nanomaterials mediated by protein assemblies. <i>Journal of Materials Chemistry</i> , 2008, 18, 3788.	6.7	54
14	Surface engineering of Co and FeCo nanoparticles for biomedical application. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2543-S2561.	1.8	50
15	Activity, selectivity, and methanol tolerance of novel carbon-supported Pt and Pt ₃ Me (Me=Ni, Co) cathode catalysts. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 1413-1427.	2.9	48
16	Synthesis and Crystal Structure of [Cd ₁₀ Se ₄ (SePh) ₁₂ (PPh ₃) ₄] and [Cd ₁₆ (SePh) ₃₂ (PPh ₃) ₂]. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2797-2799.	4.4	46
17	Zeolite-based bifunctional catalysts for the single step synthesis of dimethyl ether from CO-rich synthesis gas. <i>Fuel Processing Technology</i> , 2014, 121, 38-46.	7.2	42
18	Cadmium nanoclusters with phenylselenolato& and phenyltelluroolato ligands synthesis and structural characterization of [Cd ₁₇ Se ₄ (SePh) ₂₄ (PPh ₃) ₃] ₄ , [Cd ₈ Se(SePh) ₁₂ Cl ₄], [Cd(DMF) ₆][Cd ₈ Se(SePh) ₁₂ Cl ₄], [Cd ₈ Se(SePh) ₁₄ (PPh ₃) ₃] ₂ , [Cd ₈ Se(SePh) ₁₄ (DMF) ₃] and [Cd ₈ Te(TePh) ₁₄ su	0.9	38

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19	Moving Frontiers in Transition Metal Catalysis: Synthesis, Characterization and Modeling. <i>Advanced Materials</i> , 2019, 31, e1807381.	21.0	36
20	Palladiumâ€Based Bimetallic Nanocrystal Catalysts for the Direct Synthesis of Hydrogen Peroxide. <i>ChemSusChem</i> , 2020, 13, 3243-3251.	6.8	35
21	Effect of pyrolysis oil components on the activity and selectivity of nickel-based catalysts during hydrotreatment. <i>Applied Catalysis A: General</i> , 2017, 544, 161-172.	4.3	34
22	Tubulin assemblies as biomolecular templates for nanostructure synthesis: from nanoparticle arrays to nanowires. <i>Surface and Interface Analysis</i> , 2006, 38, 1014-1018.	1.8	33
23	Air-stable Co-, Fe-, and Fe/Co-Nanoparticles and Ferrofluids. <i>Zeitschrift Fur Physikalische Chemie</i> , 2006, 220, 3-40.	2.8	31
24	A simple aminoalkyl siloxane-mediated route to functional magnetic metal nanoparticles and magnetic nanocomposites. <i>Journal of Materials Chemistry</i> , 2009, 19, 8829.	6.7	31
25	Low-temperature hydrogen production from methanol over a ruthenium catalyst in water. <i>Catalysis Science and Technology</i> , 2021, 11, 136-142.	4.1	30
26	Surface modification of metallic Co nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 311, 92-96.	2.3	29
27	The direct synthesis of hydrogen peroxide from H ₂ and O ₂ using Pdâ€Ga and Pdâ€In catalysts. <i>Catalysis Science and Technology</i> , 2020, 10, 1925-1932.	4.1	29
28	Bifunctional hybrid catalysts derived from Cu/Zn-based nanoparticles for single-step dimethyl ether synthesis. <i>Catalysis Science and Technology</i> , 2016, 6, 1054-1063.	4.1	28
29	Highly efficient Tsujiâ€Trost allylation in water catalyzed by Pd-nanoparticles. <i>Chemical Communications</i> , 2017, 53, 5175-5178.	4.1	28
30	Preparation and characterization of low platinum loaded Pt:SnO ₂ electrocatalytic films for screen printed dye solar cell counter electrode. <i>Thin Solid Films</i> , 2007, 515, 4074-4079.	1.8	27
31	Cleaning the Click: A Simple Electrochemical Avenue for Copper Removal from Strongly Coordinating Macromolecules. <i>ACS Macro Letters</i> , 2015, 4, 298-301.	4.8	27
32	Shape-Selective Synthesis of Intermetallic Pd ₃ Pb Nanocrystals and Enhanced Catalytic Properties in the Direct Synthesis of Hydrogen Peroxide. <i>ACS Catalysis</i> , 2021, 11, 2288-2301.	11.2	27
33	A facile procedure for magnetic fluids using room temperature ionic liquids. <i>Journal of Materials Chemistry</i> , 2012, 22, 3811.	6.7	26
34	Doping of nematic cyanobiphenyl liquid crystals with mesogen-hybridized magnetic nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12127-12135.	2.8	26
35	A new palladium nanoparticle catalyst on mesoporous silica prepared from a molecular cluster precursor. <i>Dalton Transactions</i> , 2005, , 868.	3.3	25
36	Bimetallic Nickelâ€Iridium and Nickelâ€Osmium Alloy Nanoparticles and Their Catalytic Performance in Hydrogenation Reactions. <i>ChemCatChem</i> , 2017, 9, 3534-3543.	3.7	24

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37	Structuralization of magnetic nanoparticles in 5CB liquid crystals. <i>Soft Matter</i> , 2017, 13, 7890-7896.	2.7	24
38	Supported Intermetallic PdZn Nanoparticles as Bifunctional Catalysts for the Direct Synthesis of Dimethyl Ether from CO ₂ -Rich Synthesis Gas. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15655-15659.	13.8	23
39	Synthesis and Characterisation of Some New Zinc Carbamate Complexes Formed by CO ₂ Fixation and Their Use as Precursors for ZnO Particles under Mild Conditions. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 3177-3185.	2.0	22
40	Potential of gold-bound microtubules as a new ultrasound contrast agent. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 691-695.	1.5	21
41	Bimetallic Pt/Sn-based Nanoparticles in Ionic Liquids as Nanocatalysts for the Selective Hydrogenation of Cinnamaldehyde. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 120-129.	1.2	19
42	An intermetallic Pd ₂ Ga nanoparticle catalyst for the single-step conversion of CO-rich synthesis gas to dimethyl ether. <i>Applied Catalysis A: General</i> , 2018, 562, 206-214.	4.3	17
43	Dynamic structural changes of supported Pd, PdSn, and PdIn nanoparticles during continuous flow high pressure direct H ₂ O ₂ synthesis. <i>Catalysis Science and Technology</i> , 2020, 10, 4726-4742.	4.1	17
44	One-step synthesis of functional Co nanoparticles for surface-initiated polymerization. <i>Polymer</i> , 2008, 49, 2211-2216.	3.8	16
45	Synthesis of Heterobimetallic Zn/Co Carbamates: Single-Source Precursors of Nanosized Magnetic Oxides Under Mild Conditions. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 860-867.	2.0	16
46	Au-based bimetallic nanoparticles for the intramolecular aminoalkene hydroamination. <i>Dalton Transactions</i> , 2013, 42, 10404.	3.3	16
47	Ionic Liquids as Size- and Shape-Regulating Solvents for the Synthesis of Cobalt Nanoparticles. <i>Chemie-Ingenieur-Technik</i> , 2015, 87, 1741-1747.	0.8	16
48	Sc-doped barium hexaferrite nanodiscs: Tuning morphology and magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166349.	2.3	15
49	Magnetic Properties and Mössbauer Spectroscopy of Fe ₃ O ₄ /CoFe ₂ O ₄ Nanorods. <i>Inorganic Chemistry</i> , 2020, 59, 3677-3685.	4.0	14
50	Magnetic Tilting in Nematic Liquid Crystals Driven by Self-Assembly. <i>Advanced Functional Materials</i> , 2021, 31, 2101847.	14.9	13
51	Characterization of metal decorated protein templates by scanning electron/scanning force microscopy and microanalysis. <i>Surface and Interface Analysis</i> , 2004, 36, 720-723.	1.8	12
52	Synthesis and Characterization. <i>Lecture Notes in Physics</i> , 2009, , 1-82.	0.7	12
53	Darstellung und Struktur von [Cd ₁₀ Se ₄ (SePh) ₁₂ (PPh ₃) ₄] und [Cd ₁₆ (SePh) ₃₂ (PPh ₃) ₂]. <i>Angewandte Chemie</i> , 1997, 109, 2874-2876.	2.0	11
54	Ruthenium Nanoparticles in High-Throughput Studies of Chemoselective Carbonyl Hydrogenation Reactions. <i>ChemCatChem</i> , 2016, 8, 571-576.	3.7	11

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55	Bifunctional catalysts based on colloidal Cu/Zn nanoparticles for the direct conversion of synthesis gas to dimethyl ether and hydrocarbons. <i>Applied Catalysis A: General</i> , 2018, 557, 99-107.	4.3	11
56	Aqueous phase semihydrogenation of alkynes over NiÄ€Fe bimetallic catalysts. <i>Catalysis Science and Technology</i> , 2020, 10, 4968-4980.	4.1	11
57	Synthesis and Reactivity of a New OxidationÄ€Labile Heterobimetallic Mn₆Zn₂ Carbamate Cluster and Precursor to Nanosized Magnetic Oxide Particles. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1387-1394.	2.0	10
58	Selective Catalysis for Room-Temperature Hydrogenation of Biomass-Derived Compounds over Supported NiPd Catalysts in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9352-9359.	6.7	10
59	Cylindrical and ring-shaped tubulin assemblies as metallization templates explored by FESEM/EDX and SFM. <i>Surface and Interface Analysis</i> , 2006, 38, 194-197.	1.8	9
60	The potential of a new stable ultrasound contrast agent for site-specific targeting. An in vitro experiment. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1473-1478.	1.5	8
61	Increasing the critical temperature of Nb films by chemically linking magnetic nanoparticles using organic molecules. <i>Europhysics Letters</i> , 2014, 108, 37006.	2.0	8
62	Ionic liquid-initiated polymerization of epoxides: A useful strategy for the preparation of Pd-doped polyether catalysts. <i>Catalysis Today</i> , 2015, 246, 116-124.	4.4	8
63	Bimetallic Pd/SnÄ€based Nanoparticles and their Catalytic Properties in the Semihydrogenation of Diphenylacetylene. <i>ChemistryOpen</i> , 2021, 10, 296-304.	1.9	8
64	Investigation of the Hydrogenation of 5Ä€Methylfurfural by Noble Metal Nanoparticles in a Microcapillary Reactor. <i>ChemSusChem</i> , 2016, 9, 583-587.	6.8	7
65	Supported Intermetallic PdZn Nanoparticles as Bifunctional Catalysts for the Direct Synthesis of Dimethyl Ether from COÄ€Rich Synthesis Gas. <i>Angewandte Chemie</i> , 2019, 131, 15802-15806.	2.0	7
66	Dendritic Ligands for Magnetic Suspensions in Liquid Crystals. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 7820-7830.	2.4	7
67	Designing Structurally Ordered Pt/Sn Nanoparticles in Ionic Liquids and their Enhanced Catalytic Performance. <i>ChemNanoMat</i> , 2020, 6, 1854-1862.	2.8	7
68	NaCl-template-based synthesis of TiO₂-Pd/Pt hollow nanospheres for H₂O₂ direct synthesis and CO oxidation. <i>Nanoscale</i> , 2021, 13, 2005-2011.	5.6	7
69	Exceptionally large magneto-optical response in dispersions of plate-like nanocrystallites and magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 431, 79-83.	2.3	6
70	Deposition of Palladium Nanoparticles on Self-Assembled, Zinc-Induced Tubulin Macrotubes and Sheets. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6858-65.	0.9	5
71	Influence of the particle parameters on the stability of magnetic dopants in a ferrolyotropic suspension. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 431, 49-53.	2.3	5
72	Design of bimetallic Au/Cu nanoparticles in ionic liquids: Synthesis and catalytic properties in 5Ä€(hydroxymethyl)furfural oxidation. <i>ChemNanoMat</i> , 2021, 7, 1108-1116.	2.8	4

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73	Magnetic hybrid materials in liquid crystals. ChemistrySelect, 2022, 7, 1009-1032.	1.5	4
74	Imaging of self-assembled tubulin polymorphs used as metallization templates. Journal of Physics: Conference Series, 2007, 61, 374-378.	0.4	3
75	Selective Catalytic Epoxide Ring-Opening of Limonene Dioxide with Water. ACS Sustainable Chemistry and Engineering, 2021, 9, 7713-7718.	6.7	3
76	Catalytic CO Oxidation and H2O2 Direct Synthesis over Pd and Pt-Impregnated Titania Nanotubes. Catalysts, 2021, 11, 949.	3.5	3
77	Clustering in ferronematicsâ€”The effect of magnetic collective ordering. IScience, 2021, 24, 103493.	4.1	3
78	Protein Supported Metallic Nanostructures as Catalysts. Materials Research Society Symposia Proceedings, 1999, 581, 65.	0.1	1
79	Bi-template Synthesis of Ag Nanoparticles and Nanowires. Materials Research Society Symposia Proceedings, 2004, 818, 223.	0.1	1
80	Pd/Ag Nanoparticles Prepared in Ionic Liquids as Model Catalysts for the Hydrogenation of Diphenylacetylene. Chemie-Ingenieur-Technik, 0, , .	0.8	1
81	Scanning Force and Scanning Electron Microscopic/EDX Investigations of Microtubules Serving as Metallization Templates. Microscopy and Microanalysis, 2004, 10, 398-399.	0.4	0
82	Nanoparticle Ring Structures based on Protein Assemblies. Materials Research Society Symposia Proceedings, 2005, 901, 1.	0.1	0
83	Design and FESEM/EDX investigation of functional magnetic nanocomposite particles. Surface and Interface Analysis, 2013, 45, 705-714.	1.8	0
84	Synthesis of Bimetallic Pt/Sn-based Nanoparticles in Ionic Liquids. Journal of Visualized Experiments, 2018, , .	0.3	0
85	Transition Metal Catalysis: Moving Frontiers in Transition Metal Catalysis: Synthesis, Characterization and Modeling (Adv. Mater. 26/2019). Advanced Materials, 2019, 31, 1970187.	21.0	0
86	Nanostructured Materials. , 2008, , 3012-3018.		0