PDâ€Dr Silke Behrens

List of Publications by Year
in descending order

86 papers	2,383 citations	186265 28 h-index	223800 46 g-index
93 all docs	93 docs citations	93 times ranked	3456 citing authors

#	Article	IF	Citations
1	Magnetic hybrid materials in liquid crystals. ChemistrySelect, 2022, 7, 1009-1032.	1.5	4
2	Low-temperature hydrogen production from methanol over a ruthenium catalyst in water. Catalysis Science and Technology, 2021, 11, 136-142.	4.1	30
3	Bimetallic Pd/Snâ€based Nanoparticles and their Catalytic Properties in the Semihydrogenation of Diphenylacetylene. ChemistryOpen, 2021, 10, 296-304.	1.9	8
4	Shape-Selective Synthesis of Intermetallic Pd₃Pb Nanocrystals and Enhanced Catalytic Properties in the Direct Synthesis of Hydrogen Peroxide. ACS Catalysis, 2021, 11, 2288-2301.	11.2	27
5	Magnetic Tilting in Nematic Liquid Crystals Driven by Selfâ€Assembly. Advanced Functional Materials, 2021, 31, 2101847.	14.9	13
6	Selective Catalytic Epoxide Ring-Opening of Limonene Dioxide with Water. ACS Sustainable Chemistry and Engineering, 2021, 9, 7713-7718.	6.7	3
7	Design of bimetallic Au/Cu nanoparticles in ionic liquids: Synthesis and catalytic properties in 5â€(hydroxymethyl)furfural oxidation. ChemNanoMat, 2021, 7, 1108-1116.	2.8	4
8	Catalytic CO Oxidation and H2O2 Direct Synthesis over Pd and Pt-Impregnated Titania Nanotubes. Catalysts, 2021, 11, 949.	3.5	3
9	NaCl-template-based synthesis of TiO₂-Pd/Pt hollow nanospheres for H₂O₂ direct synthesis and CO oxidation. Nanoscale, 2021, 13, 2005-2011.	5.6	7
10	Clustering in ferronematicsâ€”The effect of magnetic collective ordering. IScience, 2021, 24, 103493.	4.1	3
11	Sc-doped barium hexaferrite nanodiscs: Tuning morphology and magnetic properties. Journal of Magnetism and Magnetic Materials, 2020, 500, 166349.	2.3	15
12	Designing Structurally Ordered Pt/Sn Nanoparticles in Ionic Liquids and their Enhanced Catalytic Performance. ChemNanoMat, 2020, 6, 1854-1862.	2.8	7
13	Aqueous phase semihydrogenation of alkynes over Niâ€“Fe bimetallic catalysts. Catalysis Science and Technology, 2020, 10, 4968-4980.	4.1	11
14	Dynamic structural changes of supported Pd, PdSn, and PdIn nanoparticles during continuous flow high pressure direct H₂O₂ synthesis. Catalysis Science and Technology, 2020, 10, 4726-4742.	4.1	17
15	The direct synthesis of hydrogen peroxide from H₂ and O₂ using Pdâ€“Ga and Pdâ€“In catalysts. Catalysis Science and Technology, 2020, 10, 1925-1932.	4.1	29
16	Magnetic Properties and MÃ¶ssbauer Spectroscopy of Fe₃O₄/CoFe₂O₄ Nanorods. Inorganic Chemistry, 2020, 59, 3677-3685.	4.0	14
17	Palladiumâ€Based Bimetallic Nanocrystal Catalysts for the Direct Synthesis of Hydrogen Peroxide. ChemSusChem, 2020, 13, 3243-3251.	6.8	35
18	Supported Intermetallic PdZn Nanoparticles as Bifunctional Catalysts for the Direct Synthesis of Dimethyl Ether from COâ€Rich Synthesis Gas. Angewandte Chemie - International Edition, 2019, 58, 15655-15659.	13.8	23

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19	Supported Intermetallic PdZn Nanoparticles as Bifunctional Catalysts for the Direct Synthesis of Dimethyl Ether from COâ€Rich Synthesis Gas. Angewandte Chemie, 2019, 131, 15802-15806.	2.0	7
20	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
21	Selective Catalysis for Room-Temperature Hydrogenation of Biomass-Derived Compounds over Supported NiPd Catalysts in Water. ACS Sustainable Chemistry and Engineering, 2019, 7, 9352-9359.	6.7	10
22	Moving Frontiers in Transition Metal Catalysis: Synthesis, Characterization and Modeling. Advanced Materials, 2019, 31, e1807381.	21.0	36
23	Dendritic Ligands for Magnetic Suspensions in Liquid Crystals. European Journal of Organic Chemistry, 2019, 2019, 7820-7830.	2.4	7
24	An intermetallic Pd2Ga nanoparticle catalyst for the single-step conversion of CO-rich synthesis gas to dimethyl ether. Applied Catalysis A: General, 2018, 562, 206-214.	4.3	17
25	Bifunctional catalysts based on colloidal Cu/Zn nanoparticles for the direct conversion of synthesis gas to dimethyl ether and hydrocarbons. Applied Catalysis A: General, 2018, 557, 99-107.	4.3	11
26	Synthesis of Bimetallic Pt/Sn-based Nanoparticles in Ionic Liquids. Journal of Visualized Experiments, 2018, , .	0.3	0
27	Highly efficient Tsujiâ€“Trost allylation in water catalyzed by Pd-nanoparticles. Chemical Communications, 2017, 53, 5175-5178.	4.1	28
28	Doping of nematic cyanobiphenyl liquid crystals with mesogen-hybridized magnetic nanoparticles. Physical Chemistry Chemical Physics, 2017, 19, 12127-12135.	2.8	26
29	Bimetallic Nickelâ€Iridium and Nickelâ€Osmium Alloy Nanoparticles and Their Catalytic Performance in Hydrogenation Reactions. ChemCatChem, 2017, 9, 3534-3543.	3.7	24
30	Bimetallic Pt/Snâ€based Nanoparticles in Ionic Liquids as Nanocatalysts for the Selective Hydrogenation of Cinnamaldehyde. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 120-129.	1.2	19
31	Structuralization of magnetic nanoparticles in 5CB liquid crystals. Soft Matter, 2017, 13, 7890-7896.	2.7	24
32	Effect of pyrolysis oil components on the activity and selectivity of nickel-based catalysts during hydrotreatment. Applied Catalysis A: General, 2017, 544, 161-172.	4.3	34
33	Exceptionally large magneto-optical response in dispersions of plate-like nanocrystallites and magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 431, 79-83.	2.3	6
34	Influence of the particle parameters on the stability of magnetic dopants in a ferrolyotropic suspension. Journal of Magnetism and Magnetic Materials, 2017, 431, 49-53.	2.3	5
35	Access to highly active Niâ€“Pd bimetallic nanoparticle catalysts for Câ€“C coupling reactions. Catalysis Science and Technology, 2016, 6, 5567-5579.	4.1	73
36	Magnetic nanocomposites. Current Opinion in Biotechnology, 2016, 39, 89-96.	6.6	108

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37	Investigation of the Hydrogenation of 5â€Methylfurfural by Noble Metal Nanoparticles in a Microcapillary Reactor. ChemSusChem, 2016, 9, 583-587.	6.8	7
38	Ruthenium Nanoparticles in Highâ€Throughput Studies of Chemoselective Carbonyl Hydrogenation Reactions. ChemCatChem, 2016, 8, 571-576.	3.7	11
39	Bifunctional hybrid catalysts derived from Cu/Zn-based nanoparticles for single-step dimethyl ether synthesis. Catalysis Science and Technology, 2016, 6, 1054-1063.	4.1	28
40	Highly Active Bimetallic Nickelâ€“Palladium Alloy Nanoparticle Catalyzed Suzukiâ€“Miyaura Reactions. ChemCatChem, 2015, 7, 1806-1812.	3.7	55
41	Ionic Liquids as Sizeâ€and Shapeâ€Regulating Solvents for the Synthesis of Cobalt Nanoparticles. Chemie-Ingenieur-Technik, 2015, 87, 1741-1747.	0.8	16
42	Cleaning the Click: A Simple Electrochemical Avenue for Copper Removal from Strongly Coordinating Macromolecules. ACS Macro Letters, 2015, 4, 298-301.	4.8	27
43	Ionic liquid-initiated polymerization of epoxides: A useful strategy for the preparation of Pd-doped polyether catalysts. Catalysis Today, 2015, 246, 116-124.	4.4	8
44	Increasing the critical temperature of Nb films by chemically linking magnetic nanoparticles using organic molecules. Europhysics Letters, 2014, 108, 37006.	2.0	8
45	Zeolite-based bifunctional catalysts for the single step synthesis of dimethyl ether from CO-rich synthesis gas. Fuel Processing Technology, 2014, 121, 38-46.	7.2	42
46	Au-based bimetallic nanoparticles for the intramolecular aminoalkene hydroamination. Dalton Transactions, 2013, 42, 10404.	3.3	16
47	Design and FESEM/EDX investigation of functional magnetic nanocomposite particles. Surface and Interface Analysis, 2013, 45, 705-714.	1.8	0
48	A facile procedure for magnetic fluids using room temperature ionic liquids. Journal of Materials Chemistry, 2012, 22, 3811.	6.7	26
49	Preparation of functional magnetic nanocomposites and hybrid materials: recent progress and future directions. Nanoscale, 2011, 3, 877-892.	5.6	228
50	Synthesis of Heterobimetallic Zn/Co Carbamates: Singleâ€Source Precursors of Nanosized Magnetic Oxides Under Mild Conditions. European Journal of Inorganic Chemistry, 2011, 2011, 860-867.	2.0	16
51	Synthesis and Reactivity of a New Oxidationâ€Labile Heterobimetallic Mn₆Zn₂ Carbamate Cluster and Precursor to Nanosized Magnetic Oxide Particles. European Journal of Inorganic Chemistry, 2011, 2011, 1387-1394.	2.0	10
52	Constrained Synthesis and Organization of Catalytically Active Metal Nanoparticles by Selfâ€Assembled Protein Templates. Advanced Materials, 2009, 21, 3515-3519.	21.0	61
53	A simple aminoalkyl siloxane-mediated route to functional magnetic metal nanoparticles and magnetic nanocomposites. Journal of Materials Chemistry, 2009, 19, 8829.	6.7	31
54	Synthesis and Characterization. Lecture Notes in Physics, 2009, , 1-82.	0.7	12

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55	Deposition of Palladium Nanoparticles on Self-Assembled, Zinc-Induced Tubulin Macrotubes and Sheets. Journal of Nanoscience and Nanotechnology, 2009, 9, 6858-65.	0.9	5
56	Material development for dye solar modules: results from an integrated approach. Progress in Photovoltaics: Research and Applications, 2008, 16, 489-501.	8.1	66
57	Synthesis and Characterisation of Some New Zinc Carbamate Complexes Formed by CO2Fixation and Their Use as Precursors for ZnO Particles under Mild Conditions. European Journal of Inorganic Chemistry, 2008, 2008, 3177-3185.	2.0	22
58	One-step synthesis of functional Co nanoparticles for surface-initiated polymerization. Polymer, 2008, 49, 2211-2216.	3.8	16
59	Synthesis of inorganic nanomaterials mediated by protein assemblies. Journal of Materials Chemistry, 2008, 18, 3788.	6.7	54
60	Nanostructured Materials. , 2008, , 3012-3018.		0
61	Imaging of self-assembled tubulin polymorphs used as metallization templates. Journal of Physics: Conference Series, 2007, 61, 374-378.	0.4	3
62	Preparation and characterization of low platinum loaded Pt:SnO2 electrocatalytic films for screen printed dye solar cell counter electrode. Thin Solid Films, 2007, 515, 4074-4079.	1.8	27
63	Surface modification of metallic Co nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 311, 92-96.	2.3	29
64	Activity, selectivity, and methanol tolerance of novel carbon-supported Pt and Pt3Me (MeÂ=ÂNi, Co) cathode catalysts. Journal of Applied Electrochemistry, 2007, 37, 1413-1427.	2.9	48
65	Role of the Platinum Nanoclusters in the Iodide/Triiodide Redox System of Dye Solar Cells. Journal of Cluster Science, 2007, 18, 141-155.	3.3	59
66	Air-stable Co-, Fe-, and Fe/Co-Nanoparticles and Ferrofluids. Zeitschrift Fur Physikalische Chemie, 2006, 220, 3-40.	2.8	31
67	Surface engineering of Co and FeCo nanoparticles for biomedical application. Journal of Physics Condensed Matter, 2006, 18, S2543-S2561.	1.8	50
68	Cylindrical and ring-shaped tubulin assemblies as metallization templates explored by FESEM/EDX and SFM. Surface and Interface Analysis, 2006, 38, 194-197.	1.8	9
69	Tubulin assemblies as biomolecular templates for nanostructure synthesis: from nanoparticle arrays to nanowires. Surface and Interface Analysis, 2006, 38, 1014-1018.	1.8	33
70	The potential of a new stable ultrasound contrast agent for site-specific targeting. An in vitro experiment. Ultrasound in Medicine and Biology, 2006, 32, 1473-1478.	1.5	8
71	Catalytic platinum layers for dye solar cells: A comparative study. Thin Solid Films, 2006, 511-512, 342-348.	1.8	65
72	Assembly of Nanoparticle Ring Structures Based on Protein Templates. Advanced Materials, 2006, 18, 284-289.	21.0	63

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73	Nanoparticle Ring Structures based on Protein Assemblies. Materials Research Society Symposia Proceedings, 2005, 901, 1.	0.1	0
74	A new palladium nanoparticle catalyst on mesoporous silica prepared from a molecular cluster precursor. Dalton Transactions, 2005, , 868.	3.3	25
75	Biotemplate Synthesis of Ag Nanoparticles and Nanowires. Materials Research Society Symposia Proceedings, 2004, 818, 223.	0.1	1
76	Silver Nanoparticle and Nanowire Formation by Microtubule Templates. Chemistry of Materials, 2004, 16, 3085-3090.	6.7	138
77	Characterization of metal decorated protein templates by scanning electron/scanning force microscopy and microanalysis. Surface and Interface Analysis, 2004, 36, 720-723.	1.8	12
78	Scanning Force and Scanning Electron Microscopic/EDX Investigations of Microtubules Serving as Metallization Templates. Microscopy and Microanalysis, 2004, 10, 398-399.	0.4	0
79	Nanoscale Particle Arrays Induced by Highly Ordered Protein Assemblies. Advanced Materials, 2002, 14, 1621-1625.	21.0	113
80	Potential of gold-bound microtubules as a new ultrasound contrast agent. Ultrasound in Medicine and Biology, 2002, 28, 691-695.	1.5	21
81	Protein Supported Metallic Nanostructures as Catalysts. Materials Research Society Symposia Proceedings, 1999, 581, 65.	0.1	1
82	Cadmium nanoclusters with phenylselenolatoâ€•and phenyltellurolato ligands synthesis and structural characterization of [Cd₁₇Se₄(SePh)₂₄(PPh₃)₄][Cd₈Se(SePh)₁₂</sub> [Cd(DMF)₆][Cd₈Se(SePh)₁₂Cl₄], [Cd₈Se(SePh)₁₄(PPh₃)₂], [Cd₈Se(SePh)₁₄(DMF)₃] and [Cd₈Te(TePh)₁₄</su	0.9	38
83	Synthesis and Crystal Structure of[Cd10Se4(SePh)12(PPh3)4] and[Cd16(SePh)32(PPh3)2]. Angewandte Chemie International Edition in English, 1997, 36, 2797-2799.	4.4	46
84	Darstellung und Struktur von [Cd₁₀Se₄(SePh)₁₂(PPh₃)₄] und [Cd₁₆(SePh)₃₂(PPh₃)₂]. Angewandte Chemie, 1997, 109, 2874-2876.	2.0	11
85	Synthesis and Structure of the Nanoclusters[Hg32Se14(SePh)36],[Cd32Se14(SePh)36-(PPh3)4],[P(Et)2(Ph)C4H8OSiMe3]5-[Cd18I17(PSiMe3)12], and[N(Et)3C4H8OSiMe3]5[Cd18I17(PSiMe3)12]. Angewandte Chemie International Edition in English, 1996, 35, 2215-2218.	4.4	97
86	Pd/Ag Nanoparticles Prepared in Ionic Liquids asÂModel Catalysts for the Hydrogenation of Diphenylacetylene. Chemie-Ingenieur-Technik, 0, , .	0.8	1