Alexander Birkner

List of Publications by Year
in descending order

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28	1,221	394421	434195
papers	citations	19 h-index	31 g-index

33	33	33	1618
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coexistence of Different Structural Phases in Thioaromatic Monolayers on Au(111). Langmuir, 2003, 19, 4958-4968.	3.5	120
2	Stabilizerâ€Free Metal Nanoparticles and Metalâ€“Metal Oxide Nanocomposites with Longâ€Term Stability Prepared by Physical Vapor Deposition into Ionic Liquids. Angewandte Chemie - International Edition, 2010, 49, 2431-2435.	13.8	115
3	A non-aqueous organometallic route to highly monodispersed copper nanoparticles using [Cu(OCH(Me)CH2NMe2)2]. Chemical Communications, 2002, , 68-69.	4.1	108
4	On the Nature of the Active State of Supported Ruthenium Catalysts Used for the Oxidation of Carbon Monoxide:Â Steady-State and Transient Kinetics Combined with in Situ Infrared Spectroscopyâ€. Journal of Physical Chemistry B, 2004, 108, 14634-14642.	2.6	97
5	Stability and growth behavior of transition metal nanoparticles in ionic liquids prepared by thermal evaporation: how stable are they really?. Physical Chemistry Chemical Physics, 2011, 13, 7136.	2.8	76
6	Low-temperature approach to high surface ZnO nanopowders and a non-aqueous synthesis of ZnO colloids using the single-source precursor [MeZnOSiMe3]4 and related zinc siloxides. Journal of Materials Chemistry, 2003, 13, 1731.	6.7	66
7	MOCVD-Loading of Mesoporous Siliceous Matrices with Cu/ZnO: Supported Catalysts for Methanol Synthesis. Angewandte Chemie - International Edition, 2004, 43, 2839-2842.	13.8	60
8	Nano-Brass:Â Bimetallic Copper/Zinc Colloids by a Nonaqueous Organometallic Route Using [Cu(OCH(Me)CH2NMe2)2] and Et2Zn as Precursors. Chemistry of Materials, 2003, 15, 4217-4222.	6.7	50
9	Nano-brass colloids: synthesis by co-hydrogenolysis of [CpCu(PMe3)] with [ZnCp*2] and investigation of the oxidation behaviour of Î±/Î²-CuZn nanoparticles. Journal of Materials Chemistry, 2006, 16, 2420-2428.	6.7	46
10	Adsorption of atomic hydrogen on ZnO(101Ì„0): STM study. Physical Chemistry Chemical Physics, 2006, 8, 1477.	2.8	42
11	Synthesis, Structure, and Sensor Properties of Vanadium Pentoxide Nanorods. European Journal of Inorganic Chemistry, 2010, 2010, 5247-5253.	2.0	42
12	Preparation and Structure of Inâ^'ZSM-5 Catalysts for the Selective Reduction of NO by Hydrocarbons. Journal of Physical Chemistry B, 2002, 106, 4085-4097.	2.6	40
13	Nanometallurgy of Colloidal Aluminides:Â Soft Chemical Synthesis of CuAl2and Î±/Î²-CuAl Colloids by Co-Hydrogenolysis of (AlCp*)4with [CpCu(PMe3)]. Chemistry of Materials, 2006, 18, 1634-1642.	6.7	35
14	Probing the Mechanism of Low-Temperature CO Oxidation on Au/ZnO Catalysts by Vibrational Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 11181-11188.	3.1	31
15	Organometallic Synthesis of Colloidal Î±-/Î²-NiAl Nanoparticles and Selective Aluminum Oxidation in Î±-Ni1-xAlx Nanoalloys. Chemistry of Materials, 2007, 19, 5721-5733.	6.7	28
16	MOCVD of gallium nitride nanostructures using (N3)2Ga{(CH2)3NR2}, R = Me, Et, as a single molecule precursor: morphology control and materials characterization. Journal of Materials Chemistry, 2003, 13, 1438.	6.7	27
17	Sensor properties of vanadium oxide nanotubes. Mendeleev Communications, 2008, 18, 6-7.	1.6	27
18	Absence of template induced ordering in organic multilayers: The growth of pentacene on a Cu(221) vicinal surface. Surface Science, 2011, 605, 577-581.	1.9	22

#	Article	IF	Citations
19	Inorganic chemistry in a nanoreactor: Au/TiO2 nanocomposites by photolysis of a single-source precursor in miniemulsion. Nanoscale, 2013, 5, 10534.	5.6	21
20	A novel preparation of nano-Cu/ZnO by photo-reduction of Cu(OCH(Me)CH2NMe2)2 on ZnO at room temperature. Chemical Communications, 2003, , 40-41.	4.1	19
21	Organometallic Access to IntermetallicÎ¸â€CuE2(E = Al, Ga) and Cu1â€“xAlxPhases. European Journal of Inorganic Chemistry, 2008, 2008, 3330-3339.	2.0	19
22	Organometallic Synthesis of Î²â€CoAl Nanoparticles and Î²â€CoAl/Al Nanoparticles and Their Behaviour upon Air Exposure. European Journal of Inorganic Chemistry, 2010, 2010, 1599-1603.	2.0	15
23	Molecules Coining Patterns into a Metal:â€‰ The Hard Core of Soft Matter. Chemistry of Materials, 2007, 19, 4228-4233.	6.7	14
24	A gold-containing TiO complex: a crystalline molecular precursor as an alternative route to Au/TiO2 composites. Dalton Transactions, 2008, , 6106.	3.3	13
25	Hydrogen as an optimum reducing agent for metallization of self-assembled monolayers. Journal of Materials Chemistry, 2012, 22, 14337.	6.7	9
26	Metalâ€“supported catalysts encapsulated in mesoporous solids: Challenges and opportunities of a model concept. Physica Status Solidi (B): Basic Research, 2013, 250, 1081-1093.	1.5	8
27	Elucidating elementary processes at Cu/ZnO interfaces: A microscopical approach. Physica Status Solidi (B): Basic Research, 2013, 250, 1071-1080.	1.5	5
28	The thermally induced interaction of Cu and Au with ZnO single crystal surfaces. Physica Status Solidi (B): Basic Research, 2013, 250, 1222-1234.	1.5	4