

Alexander Birkner

List of Publications by Year in descending order

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28
papers

1,221
citations

394421

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434195

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docs citations

33
times ranked

1618
citing authors

#	ARTICLE	IF	CITATIONS
1	Inorganic chemistry in a nanoreactor: Au/TiO ₂ nanocomposites by photolysis of a single-source precursor in miniemulsion. <i>Nanoscale</i> , 2013, 5, 10534.	5.6	21
2	Metal-supported catalysts encapsulated in mesoporous solids: Challenges and opportunities of a model concept. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1081-1093.	1.5	8
3	The thermally induced interaction of Cu and Au with ZnO single crystal surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1222-1234.	1.5	4
4	Elucidating elementary processes at Cu/ZnO interfaces: A microscopical approach. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1071-1080.	1.5	5
5	Hydrogen as an optimum reducing agent for metallization of self-assembled monolayers. <i>Journal of Materials Chemistry</i> , 2012, 22, 14337.	6.7	9
6	Probing the Mechanism of Low-Temperature CO Oxidation on Au/ZnO Catalysts by Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11181-11188.	3.1	31
7	Stability and growth behavior of transition metal nanoparticles in ionic liquids prepared by thermal evaporation: how stable are they really?. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7136.	2.8	76
8	Absence of template induced ordering in organic multilayers: The growth of pentacene on a Cu(221) vicinal surface. <i>Surface Science</i> , 2011, 605, 577-581.	1.9	22
9	Organometallic Synthesis of $\text{I}^{\pm}\text{CoAl}$ Nanoparticles and $\text{I}^{\pm}\text{CoAl/Al}$ Nanoparticles and Their Behaviour upon Air Exposure. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1599-1603.	2.0	15
10	Synthesis, Structure, and Sensor Properties of Vanadium Pentoxide Nanorods. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 5247-5253.	2.0	42
11	Stabilizer-Free Metal Nanoparticles and Metal-Metal Oxide Nanocomposites with Long-Term Stability Prepared by Physical Vapor Deposition into Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2431-2435.	13.8	115
12	Organometallic Access to Intermetallic $\text{I}^{\pm}\text{CuE}_2$ (E = Al, Ga) and $\text{Cu}_{1-x}\text{Al}_x$ Phases. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 3330-3339.	2.0	19
13	Sensor properties of vanadium oxide nanotubes. <i>Mendeleev Communications</i> , 2008, 18, 6-7.	1.6	27
14	A gold-containing TiO complex: a crystalline molecular precursor as an alternative route to Au/TiO ₂ composites. <i>Dalton Transactions</i> , 2008, , 6106.	3.3	13
15	Molecules Coining Patterns into a Metal: The Hard Core of Soft Matter. <i>Chemistry of Materials</i> , 2007, 19, 4228-4233.	6.7	14
16	Organometallic Synthesis of Colloidal $\text{I}^{\pm}/\text{I}^2\text{-NiAl}$ Nanoparticles and Selective Aluminum Oxidation in $\text{I}^{\pm}\text{-Ni}_{1-x}\text{Al}_x$ Nanoalloys. <i>Chemistry of Materials</i> , 2007, 19, 5721-5733.	6.7	28
17	Nano-brass colloids: synthesis by co-hydrogenolysis of $[\text{CpCu}(\text{PMe}_3)]$ with $[\text{ZnCu}^*]_2$ and investigation of the oxidation behaviour of $\text{I}^{\pm}/\text{I}^2\text{-CuZn}$ nanoparticles. <i>Journal of Materials Chemistry</i> , 2006, 16, 2420-2428.	6.7	46
18	Adsorption of atomic hydrogen on ZnO(101̄,0): STM study. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1477.	2.8	42

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19	Nanometallurgy of Colloidal Aluminides: A Soft Chemical Synthesis of CuAl ₂ and $\sqrt{2}$ -CuAl Colloids by Co-Hydrogenolysis of (AlCp*) ₄ with [CpCu(PMe ₃)]. Chemistry of Materials, 2006, 18, 1634-1642.	6.7	35
20	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
21	On the Nature of the Active State of Supported Ruthenium Catalysts Used for the Oxidation of Carbon Monoxide: A Steady-State and Transient Kinetics Combined with in Situ Infrared Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 14634-14642.	2.6	97
22	A novel preparation of nano-Cu/ZnO by photo-reduction of Cu(OCH(Me)CH ₂ NMe ₂) ₂ on ZnO at room temperature. Chemical Communications, 2003, , 40-41.	4.1	19
23	Nano-Brass: A Bimetallic Copper/Zinc Colloids by a Nonaqueous Organometallic Route Using [Cu(OCH(Me)CH ₂ NMe ₂) ₂] and Et ₂ Zn as Precursors. Chemistry of Materials, 2003, 15, 4217-4222.	6.7	50
24	Coexistence of Different Structural Phases in Thioaromatic Monolayers on Au(111). Langmuir, 2003, 19, 4958-4968.	3.5	120
25	MOCVD of gallium nitride nanostructures using (N ₃) ₂ Ga{(CH ₂) ₃ NR ₂ }, R = Me, Et, as a single molecule precursor: morphology control and materials characterization. Journal of Materials Chemistry, 2003, 13, 1438.	6.7	27
26	Low-temperature approach to high surface ZnO nanopowders and a non-aqueous synthesis of ZnO colloids using the single-source precursor [MeZnOSiMe ₃] ₄ and related zinc siloxides. Journal of Materials Chemistry, 2003, 13, 1731.	6.7	66
27	A non-aqueous organometallic route to highly monodispersed copper nanoparticles using [Cu(OCH(Me)CH ₂ NMe ₂) ₂]. Chemical Communications, 2002, , 68-69.	4.1	108
28	Preparation and Structure of In ⁺ ~ZSM-5 Catalysts for the Selective Reduction of NO by Hydrocarbons. Journal of Physical Chemistry B, 2002, 106, 4085-4097.	2.6	40