

Johannes Frenzel

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,211
citations

471509

17
h-index

580821

25
g-index

29
all docs

29
docs citations

29
times ranked

2053
citing authors

#	ARTICLE	IF	CITATIONS
1	Imogolite Nanotubes: Stability, Electronic, and Mechanical Properties. ACS Nano, 2007, 1, 362-368.	14.6	172
2	Adsorption of Phosphonic Acid at the TiO ₂ Anatase (101) and Rutile (110) Surfaces. Journal of Physical Chemistry C, 2009, 113, 5730-5740.	3.1	155
3	On the reticular construction concept of covalent organic frameworks. Beilstein Journal of Nanotechnology, 2010, 1, 60-70.	2.8	139
4	Adsorption of phosphonic and ethylphosphonic acid on aluminum oxide surfaces. Surface Science, 2008, 602, 1347-1359.	1.9	97
5	Reaction Network of Methanol Synthesis over Cu/ZnO Nanocatalysts. ACS Catalysis, 2015, 5, 4201-4218.	11.2	87
6	Atomic-Scale Explanation of O ₂ Activation at the Au@TiO ₂ Interface. Journal of the American Chemical Society, 2018, 140, 18082-18092.	13.7	69
7	Structural and Electronic Properties of Bulk Gibbsite and Gibbsite Surfaces. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 1267-1271.	1.2	63
8	Optical Excitations in Cadmium Sulfide Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 10761-10770.	3.1	57
9	Do Cement Nanotubes exist?. Advanced Materials, 2012, 24, 3239-3245.	21.0	51
10	Structural properties of metal-organic frameworks within the density-functional based tight-binding method. Physica Status Solidi (B): Basic Research, 2012, 249, 335-342.	1.5	42
11	Efficient Calculation of Electronic Absorption Spectra by Means of Intensity-Selected Time-Dependent Density Functional Tight Binding. Journal of Chemical Theory and Computation, 2015, 11, 157-167.	5.3	42
12	The Effects of Organisation, Embedding and Surfactants on the Properties of Cadmium Chalcogenide (CdS, CdSe and CdS/CdSe) Semiconductor Nanoparticles. European Journal of Inorganic Chemistry, 2005, 2005, 3585-3596.	2.0	33
13	Methanol synthesis on ZnO(0001̄). III. Free energy landscapes, reaction pathways, and mechanistic insights. Journal of Chemical Physics, 2011, 134, 064710.	3.0	33
14	Tuning the Reactivity of a Cu/ZnO Nanocatalyst via Gas Phase Pressure. Physical Review Letters, 2013, 110, 086108.	7.8	31
15	Adsorption of nucleotides on the rutile (110) surface. International Journal of Materials Research, 2010, 101, 758-764.	0.3	22
16	Methanol synthesis on ZnO(0001̄). IV. Reaction mechanisms and electronic structure. Journal of Chemical Physics, 2014, 141, 124710.	3.0	18
17	Cu/ZnO nanocatalysts in response to environmental conditions: surface morphology, electronic structure, redox state and CO ₂ activation. Physical Chemistry Chemical Physics, 2014, 16, 26119-26136.	2.8	17
18	Methanol synthesis on ZnO(0001̄). II. Structure, energetics, and vibrational signature of reaction intermediates. Journal of Chemical Physics, 2013, 139, 044705.	3.0	16

#	ARTICLE	IF	CITATIONS
19	Methanol synthesis on ZnO from molecular dynamics. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1174-1190.	1.5	16
20	Electronic structure of Ga ₈₄ cluster compounds. <i>Physical Review B</i> , 2004, 70, .	3.2	15
21	Bicanonical <i>ab Initio</i> Molecular Dynamics for Open Systems. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3455-3469.	5.3	10
22	Surface Effects in the Pressure-Induced Structural Transformation of a ZnO Nanorod. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 1773-1776.	1.2	9
23	Optical Excitations in CdSe/CdS Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10338-10344.	3.1	7
24	Electronic structure calculations of large cadmium chalcogenide nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 384-391.	1.5	2
25	Structural and Electronic Properties of Bulk Gibbsite and Gibbsite Surfaces. <i>ChemInform</i> , 2005, 36, no.	0.0	0
26	The Effects of Organization, Embedding and Surfactants on the Properties of Cadmium Chalcogenide (CdS, CdSe and CdS/CdSe) Semiconductor Nanoparticles. <i>ChemInform</i> , 2005, 36, no.	0.0	0
27	Heterogeneous Catalysis on Metal/Oxide Systems from Accelerated <i>Ab Initio</i> Simulations. <i>Advanced Science Letters</i> , 2017, 23, 5834-5836.	0.2	0