

Gotthard Seifert

List of Publications by Year in descending order

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211
papers

13,955
citations

16411

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h-index

23472

111
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222
all docs

222
docs citations

222
times ranked

16625
citing authors

#	ARTICLE	IF	CITATIONS
1	Localization of edge states at triangular defects in periodic MoS_2 monolayers. Physical Review Materials, 2021, 5, .	0.9	3
2	Closed-Loop Defect States in 2D Materials with Honeycomb Lattice Structure: Molybdenum Disulfide. Physica Status Solidi (B): Basic Research, 2021, 258, 2100214.	0.7	0
3	Interfacial Approach toward Benzene-Bridged Polypyrrole Film-Based Micro-Supercapacitors with Ultrahigh Volumetric Power Density. Advanced Functional Materials, 2020, 30, 1908243.	7.8	60
4	Exciton factors of van der Waals heterostructures from first-principles calculations. Physical Review B, 2020, 101, .	1.1	82
5	Unconventional deformation potential and half-metallicity in zigzag nanoribbons of 2D-Xenes. Physical Chemistry Chemical Physics, 2020, 22, 7294-7299.	1.3	4
6	TET-functionalized TiO ₂ nanoparticles for DOX loading: a quantum mechanical study at the atomic scale. Nanoscale Advances, 2020, 2, 2774-2784.	2.2	6
7	Interlayer Excitons in Transition-Metal Dichalcogenide Heterobilayers. Physica Status Solidi (B): Basic Research, 2019, 256, 1900308.	0.7	15
8	Synthetic 2-D lead tin sulfide nanosheets with tuneable optoelectronic properties from a potentially scalable reaction pathway. Chemical Science, 2019, 10, 1035-1045.	3.7	16
9	Twist-driven separation of p-type and n-type dopants in single-crystalline nanowires. National Science Review, 2019, 6, 532-539.	4.6	12
10	Luminescent Emission of Excited Rydberg Excitons from Monolayer WSe ₂ . Nano Letters, 2019, 19, 2464-2471.	4.5	51
11	An efficient way to model complex magnetite: Assessment of SCC-DFTB against DFT. Journal of Chemical Physics, 2019, 150, 094703.	1.2	24
12	Twist-induced preferential distribution of dopants in single-crystalline Si nanowires. Physical Review B, 2019, 100, .	1.1	6
13	Copolymers of Diketopyrrolopyrrole and Benzothiadiazole: Design and Function from Simulations with Experimental Support. Macromolecules, 2019, 52, 904-914.	2.2	9
14	Surface-Charge Dependent Orientation of Water at the Interface of a Gold Electrode: A Cluster Study. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1583-1592.	1.4	3
15	Momentum-space indirect interlayer excitons in transition-metal dichalcogenide van der Waals heterostructures. Nature Physics, 2018, 14, 801-805.	6.5	229
16	A comparative analysis of symmetric diketopyrrolopyrrole-cored small conjugated molecules with aromatic flanks: From geometry to charge transport. Journal of Computational Chemistry, 2018, 39, 2526-2538.	1.5	7
17	Theoretical and experimental investigations of ¹²⁹ Xe NMR chemical shift isotherms in metal-organic frameworks. Physical Chemistry Chemical Physics, 2018, 20, 25039-25043.	1.3	8
18	Functional thiols as repair and doping agents of defective MoS ₂ monolayers. Journal of Physics Condensed Matter, 2018, 30, 235302.	0.7	8

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19	Curved TiO ₂ Nanoparticles in Water: Short (Chemical) and Long (Physical) Range Interfacial Effects. ACS Applied Materials & Interfaces, 2018, 10, 29943-29953.	4.0	35
20	Graphite oxide swelling in molten sugar alcohols and their aqueous solutions. Carbon, 2018, 140, 157-163.	5.4	15
21	Molecular Doping of a High Mobility Diketopyrrolopyrrole-Dithienylthieno[3,2-b]thiophene Donor-Acceptor Copolymer with F6TCNNQ. Macromolecules, 2017, 50, 914-926.	2.2	66
22	Localized defect states in MoS ₂ monolayers: Electronic and optical properties. Physica Status Solidi (B): Basic Research, 2017, 254, 1600645.	0.7	30
23	Charge Transfer Variability in Misfit Layer Compounds: Comparison of SnS ₂ and LaTa ₂ . Israel Journal of Chemistry, 2017, 57, 553-559.	1.0	10
24	Influence of Electric Fields on the Electron Transport in Donor-Acceptor Polymers. Journal of Physical Chemistry C, 2017, 121, 3714-3723.	1.5	7
25	Porous graphite oxide pillared with tetrapod-shaped molecules. Carbon, 2017, 120, 145-156.	5.4	29
26	Multilayered intercalation of 1-octanol into Brodie graphite oxide. Nanoscale, 2017, 9, 6929-6936.	2.8	27
27	Tuning quantum electron and phonon transport in two-dimensional materials by strain engineering: a Green's function based study. Physical Chemistry Chemical Physics, 2017, 19, 1487-1495.	1.3	19
28	The origin of the measured chemical shift of ¹²⁹ Xe in UiO-66 and UiO-67 revealed by DFT investigations. Physical Chemistry Chemical Physics, 2017, 19, 10020-10027.	1.3	23
29	Molybdenum Carbide-Embedded Nitrogen-Doped Porous Carbon Nanosheets as Electrocatalysts for Water Splitting in Alkaline Media. ACS Nano, 2017, 11, 3933-3942.	7.3	367
30	Structure and Stability of GaS Fullerenes and Nanotubes. Israel Journal of Chemistry, 2017, 57, 529-539.	1.0	6
31	Chemical and Electronic Repair Mechanism of Defects in MoS ₂ Monolayers. ACS Nano, 2017, 11, 9989-9996.	7.3	80
32	Toward Activity Origin of Electrocatalytic Hydrogen Evolution Reaction on Carbon-Rich Crystalline Coordination Polymers. Small, 2017, 13, 1700783.	5.2	16
33	Effective Zeeman splitting in bent lateral heterojunctions of graphene and hexagonal boron nitride: A new mechanism towards half-metallicity. Physical Review B, 2017, 96, .	1.1	14
34	Water Multilayers on TiO ₂ (101) Anatase Surface: Assessment of a DFTB-Based Method. Journal of Chemical Theory and Computation, 2017, 13, 3862-3873.	2.3	40
35	Conformational and electronic properties of small benzothiadiazole-cored oligomers with aryl flanking units: Thiophene versus Furan. Computational Materials Science, 2017, 126, 287-298.	1.4	21
36	Immobilizing Molecular Metal Dithiolene-Diamine Complexes on 2D Metal-Organic Frameworks for Electrocatalytic H ₂ Production. Chemistry - A European Journal, 2017, 23, 2255-2260.	1.7	208

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37	Impact of incomplete metal coverage on the electrical properties of metal-CNT contacts: A large-scale <i>ab initio</i> study. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	10
38	Towards an optimal contact metal for CNTFETs. <i>Nanoscale</i> , 2016, 8, 10240-10251.	2.8	54
39	Hopping-Based Charge Transfer in Diketopyrrolopyrrole-Based Donor-Acceptor Polymers: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9581-9587.	1.5	11
40	Anisotropic Thermoelectric Response in Two-Dimensional Puckered Structures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18841-18849.	1.5	84
41	High Conductivity in Molecularly p-Doped Diketopyrrolopyrrole-Based Polymer: The Impact of a High Dopant Strength and Good Structural Order. <i>Advanced Materials</i> , 2016, 28, 6003-6010.	11.1	130
42	Screening for high-spin metal organic frameworks (MOFs): density functional theory study on DUT-8(M ₁ ,M ₂) (with M _i = V, Cr, Cu). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8075-8080.	1.3	23
43	Tubular structures from the LnS ₂ Ta ₂ (Ln = La, Ce, Nd, Ho, Er) and LaSe ₂ Ta ₂ misfit layered compounds. <i>Journal of Materials Chemistry C</i> , 2016, 4, 89-98.	2.7	22
44	Electronic and magnetic properties of DUT-8(Ni). <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17122-17129.	1.3	29
45	Hydrogen adsorption by perforated graphene. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6594-6599.	3.8	59
46	Enhanced proton-transfer activity in imidazole@MIL-53(Al) systems revealed by molecular-dynamics simulations. <i>Microporous and Mesoporous Materials</i> , 2015, 216, 36-41.	2.2	12
47	Characteristics of flexibility in metal-organic framework solid solutions of composition [Zn ₂ (BME-bdc) _x (DB-bdc) _{2-2x}]/n: In situ powder X-ray diffraction, in situ NMR spectroscopy, and molecular dynamics simulations. <i>Microporous and Mesoporous Materials</i> , 2015, 216, 64-74.	2.2	41
48	Graphene-based technologies for energy applications, challenges and perspectives. <i>2D Materials</i> , 2015, 2, 030204.	2.0	74
49	Nanotube Electromechanics beyond Carbon: The Case of WS ₂ . <i>ACS Nano</i> , 2015, 9, 12224-12232.	7.3	29
50	Hydrogen storage in high surface area graphene scaffolds. <i>Chemical Communications</i> , 2015, 51, 15280-15283.	2.2	79
51	Tin(II) Sulfide (SnS) Nanosheets by Liquid-Phase Exfoliation of Herzenbergite: IV-VI Main Group Two-Dimensional Atomic Crystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 12689-12696.	6.6	220
52	Porous Graphene Oxide/Diboronic Acid Materials: Structure and Hydrogen Sorption. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27179-27191.	1.5	49
53	Optics, Mechanics, and Energetics of Two-Dimensional MoS ₂ Nanostructures from a Theoretical Perspective. <i>Accounts of Chemical Research</i> , 2015, 48, 48-55.	7.6	53
54	Single- to Triple-Wall WS ₂ Nanotubes Obtained by High-Power Plasma Ablation of WS ₂ Multiwall Nanotubes. <i>Inorganics</i> , 2014, 2, 177-190.	1.2	27

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55	Two-dimensional and tubular structures of misfit compounds: Structural and electronic properties. Beilstein Journal of Nanotechnology, 2014, 5, 2171-2178.	1.5	14
56	Wear, Plasticity, and Rehybridization in Tetrahedral Amorphous Carbon. Tribology Letters, 2014, 53, 119-126.	1.2	89
57	Density functional tight binding. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20120483.	1.6	256
58	Optical Properties of Triangular Molybdenum Disulfide Nanoflakes. Journal of Physical Chemistry Letters, 2014, 5, 3636-3640.	2.1	35
59	Is MoS ₂ a robust material for 2D electronics?. Nanotechnology, 2014, 25, 445201.	1.3	14
60	Tetrahedral Amorphous Carbon Coatings for Friction Reduction of the Valve Train in Internal Combustion Engines. Advanced Engineering Materials, 2014, 16, 1226-1233.	1.6	12
61	Proton Conduction in a MIL-53(Al) Metal-Organic Framework: Confinement versus Host/Guest Interaction. Journal of Physical Chemistry C, 2014, 118, 13035-13041.	1.5	35
62	Combined SnS@SnS ₂ double layers: charge transfer and electronic structure. Semiconductor Science and Technology, 2014, 29, 064006.	1.0	23
63	Stretching and breaking of monolayer MoS ₂ – an atomistic simulation. 2D Materials, 2014, 1, 011007.	2.0	32
64	Dielectric Properties of Selected Metal-Organic Frameworks. Journal of Physical Chemistry C, 2014, 118, 11799-11805.	1.5	40
65	Gate effects in a hexagonal zinc-imidazolate-4-amide-5-imidate framework with flexible methoxy substituents and CO ₂ selectivity. Chemical Communications, 2013, 49, 7599.	2.2	35
66	Syntheses of two imidazolate-4-amide-5-imidate linker-based hexagonal metal-organic frameworks with flexible ethoxy substituent. CrystEngComm, 2013, 15, 9394.	1.3	27
67	The Virtues of Magnetism. ACS Nano, 2013, 7, 10449-10451.	7.3	6
68	Quantifying charge transfer energies at donor-acceptor interfaces in small-molecule solar cells with constrained DFTB and spectroscopic methods. Journal of Physics Condensed Matter, 2013, 25, 473201.	0.7	38
69	Theoretical studies on the structural and electronic properties of π -stacked cyano-thiophene-based molecules. Computational and Theoretical Chemistry, 2013, 1023, 65-73.	1.1	4
70	Theoretical study on the CH \cdots NC hydrogen bond interaction in thiophene-based molecules. Computational and Theoretical Chemistry, 2013, 1005, 45-52.	1.1	5
71	Observation of a Burstein-Moss Shift in Rhenium-Doped MoS ₂ Nanoparticles. ACS Nano, 2013, 7, 3506-3511.	7.3	81
72	Line Defects in Molybdenum Disulfide Layers. Journal of Physical Chemistry C, 2013, 117, 10842-10848.	1.5	127

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73	Defect-induced conductivity anisotropy in MoS ₂ monolayers. Physical Review B, 2013, 88, .	1.1	144
74	Theoretical investigation of the electronic structure and quantum transport in the graphene/C(111) diamond surface system. Journal of Physics Condensed Matter, 2013, 25, 435302.	0.7	13
75	Limits of mechanical energy storage and structural changes in twisted carbon nanotube ropes. Physical Review B, 2013, 88, .	1.1	16
76	Optimizing Electronic Structure and Quantum Transport at the Graphene-Si(111) Interface: An Ab-Initio Density-Functional Study. Physical Review Letters, 2013, 110, 176805.	2.9	23
77	Squeezing lone pairs: The A_{17} to A_7 pressure-induced phase transition in black phosphorus. Physical Review B, 2012, 85, .	1.1	81
78	Nanomechanical Energy Storage in Twisted Nanotube Ropes. Physical Review Letters, 2012, 109, 255501.	2.9	18
79	Materials for Lithium Ion Batteries: Challenges for Numerical Simulations. Zeitschrift Fur Physikalische Chemie, 2012, 226, 95-106.	1.4	4
80	Combined IR absorption and modeling study of nanoporous zeolite imidazolate frameworks (ZIFs) filled with hydrogen. RSC Advances, 2012, 2, 9839.	1.7	4
81	Materials for Lithium Ion Batteries: Challenges for Numerical Simulations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1555-1555.	0.6	0
82	Designing Electrical Contacts to MoS ₂ Monolayers: A Computational Study. Physical Review Letters, 2012, 108, 156802.	2.9	475
83	Density-functional study of Li _x MoS ₂ intercalates ($0 \leq x \leq 1$). Computational and Theoretical Chemistry, 2012, 999, 13-20.	1.1	120
84	Structural properties of metal-organic frameworks within the density-functional based tight-binding method. Physica Status Solidi (B): Basic Research, 2012, 249, 335-342.	0.7	42
85	Density-functional tight binding: an approximate density-functional theory method. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2012, 2, 456-465.	6.2	175
86	Helicity in Ropes of Chiral Nanotubes: Calculations and Observation. Physical Review Letters, 2012, 108, 235501.	2.9	6
87	Theoretical Study of the Mechanical Behavior of Individual TiS ₂ and MoS ₂ Nanotubes. Journal of Physical Chemistry C, 2012, 116, 11714-11721.	1.5	114
88	An Isorecticular Family of Microporous Metal-Organic Frameworks Based on Zinc and Substituted Imidazolate/Amide/Imidate: Syntheses, Structures and Properties. Chemistry - A European Journal, 2012, 18, 11630-11640.	1.7	26
89	Controlled Doping of MS ₂ (M=W, Mo) Nanotubes and Fullerene-like Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 1148-1151.	7.2	73
90	Polymorphs of lithium-boron imidazolates: energy landscape and hydrogen storage properties. Dalton Transactions, 2011, 40, 3796-3798.	1.6	22

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91	Structural and Electronic Properties of Helical TiS ₂ Nanotubes Studied with Objective Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6392-6396.	1.5	27
92	High-Pressure in Situ ¹²⁹ Xe NMR Spectroscopy and Computer Simulations of Breathing Transitions in the Metal-Organic Framework Ni ₂ (2,6-ndc) ₂ (dabco) (DUT-8(Ni)). <i>Journal of the American Chemical Society</i> , 2011, 133, 8681-8690.	6.6	113
93	New Route for Stabilization of 1T-WS ₂ and MoS ₂ Phases. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24586-24591.	1.5	430
94	Optical Excitations in CdSe/CdS Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10338-10344.	1.5	7
95	Experimental, finite element, and density-functional theory study of inorganic nanotube compression. <i>Applied Physics Letters</i> , 2011, 98, 081908.	1.5	14
96	High resolution TEM study of WS ₂ nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2716-2719.	0.7	35
97	Packings of Carbon Nanotubes – New Materials for Hydrogen Storage. <i>Advanced Materials</i> , 2011, 23, 1237-1241.	11.1	76
98	MoS ₂ Hybrid Nanostructures: From Octahedral to Quasi-Spherical Shells within Individual Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1810-1814.	7.2	62
99	Synthesis of Copious Amounts of SnS ₂ and SnS ₂ /SnS Nanotubes with Ordered Superstructures. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12316-12320.	7.2	94
100	Hydrogen storage in zeolite imidazolate frameworks. A multiscale theoretical investigation. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 6005-6013.	3.8	38
101	Radial compression studies of WS ₂ nanotubes in the elastic regime. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, .	0.6	18
102	Novel Computational Approaches to Li Diffusion and Electron Transport for High Capacity Battery Materials. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1313, 70101.	0.1	0
103	Structural, Electronic, and Mechanical Properties of Single-Walled Halloysite Nanotube Models. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11358-11363.	1.5	231
104	Molecular-dynamics simulations of capillary imbibition of KI melt into MoS ₂ nanotubes. <i>Chemical Physics Letters</i> , 2010, 501, 98-102.	1.2	5
105	One- and Two-Dimensional Inorganic Crystals inside Inorganic Nanotubes. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4233-4243.	1.0	14
106	Synthesis of Core-Shell Inorganic Nanotubes. <i>Advanced Functional Materials</i> , 2010, 20, 2459-2468.	7.8	54
107	Adsorption of hydrogen in covalent organic frameworks: Comparison of simulations and experiments. <i>Microporous and Mesoporous Materials</i> , 2010, 133, 59-65.	2.2	58
108	Hydrogen adsorption sites and energies in 2D and 3D covalent organic frameworks. <i>Chemical Physics Letters</i> , 2010, 489, 86-91.	1.2	27

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109	Self-Assembled Monolayers of Alkylphosphonic Acids on Aluminum Oxide Surfaces – A Theoretical Study. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 1506-1512.	0.6	38
110	Transition metal sulfide clusters below the cluster-platelet transition: Theory and experiment. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1069-1076.	0.7	17
111	Prediction of huge magnetic anisotropies of transition-metal dimer-benzene complexes from density functional theory calculations. <i>Physical Review B</i> , 2010, 82, .	1.1	18
112	Hydrogen Adsorption Sites in Zeolite Imidazolate Frameworks ZIF-8 and ZIF-11. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13381-13384.	1.5	66
113	Adsorption of nucleotides on the rutile (110) surface. <i>International Journal of Materials Research</i> , 2010, 101, 758-764.	0.1	22
114	Hollow V_2O_5 Nanoparticles (Fullerene-Like Analogues) Prepared by Laser Ablation. <i>Journal of the American Chemical Society</i> , 2010, 132, 11214-11222.	6.6	45
115	Stability and Electronic Properties of Bismuth Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22092-22097.	1.5	31
116	Density-functional based tight-binding: an approximate DFT method. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 1193-1205.	0.6	177
117	Stability and electronic properties of rhenium sulfide nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 114-118.	0.7	8
118	Aspects of the Proton Transfer in Liquid Phosphonic Acid. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8475-8480.	1.2	15
119	Nanoseashells and Nanooctahedra of MoS_2 : Routes to Inorganic Fullerenes. <i>Chemistry of Materials</i> , 2009, 21, 5627-5636.	3.2	29
120	Capillary Imbibition of PbI_2 Melt by Inorganic and Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13664-13669.	1.5	26
121	Nonadiabatic Dynamics within Time-Dependent Density Functional Tight Binding Method. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12700-12705.	1.1	88
122	Correction for dispersion and Coulombic interactions in molecular clusters with density functional derived methods: Application to polycyclic aromatic hydrocarbon clusters. <i>Journal of Chemical Physics</i> , 2009, 130, 244304.	1.2	88
123	Co Dimers on Hexagonal Carbon Rings Proposed as Subnanometer Magnetic Storage Bits. <i>Physical Review Letters</i> , 2009, 103, 187201.	2.9	91
124	Hydrogen storage in 1D nanotube-like channels metal-organic frameworks: Effects of free volume and heat of adsorption on hydrogen uptake. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8135-8143.	3.8	23
125	Adsorption of Phosphonic Acid at the TiO_2 Anatase (101) and Rutile (110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5730-5740.	1.5	155
126	On the nature of the interaction between H_2 and metal-organic frameworks. <i>Theoretical Chemistry Accounts</i> , 2008, 120, 543-550.	0.5	36

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127	H ₂ Adsorption in Metal-Organic Frameworks: Dispersion or Electrostatic Interactions?. Chemistry - A European Journal, 2008, 14, 6597-6600.	1.7	69
128	Adsorption of phosphonic and ethylphosphonic acid on aluminum oxide surfaces. Surface Science, 2008, 602, 1347-1359.	0.8	97
129	Fullerene-like Mo(W) ¹⁺ ReS ₂ Nanoparticles. Chemistry - an Asian Journal, 2008, 3, 1568-1574.	1.7	33
130	Torsional Stick-Slip Behavior in WS_2 Nanotubes. Physical Review Letters, 2008, 101, 195501.	2.9	68
131	Electronic and transport properties of contacts between molybdenum sulfide nanowires and gold electrodes. Applied Physics Letters, 2008, 93, .	1.5	11
132	Nanolubrication: How Do MoS ₂ -Based Nanostructures Lubricate?. Journal of Physical Chemistry C, 2008, 112, 17764-17767.	1.5	64
133	Atom by atom: HRTEM insights into inorganic nanotubes and fullerene-like structures. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15643-15648.	3.3	77
134	Toward Atomic-Scale Bright-Field Electron Tomography for the Study of Fullerene-Like Nanostructures. Nano Letters, 2008, 8, 891-896.	4.5	61
135	Atomic-Scale Structure of Mo ₆ S ₆ Nanowires. Nano Letters, 2008, 8, 3928-3931.	4.5	68
136	Electromechanical Switch Based on Mo ₆ S ₆ Nanowires. Nano Letters, 2008, 8, 4093-4097.	4.5	45
137	Structural and electronic properties of Mo ₆ S ₈ clusters deposited on a Au(111) surface investigated with density functional theory. Physical Review B, 2007, 75, .	1.1	11
138	Unique Structural and Transport Properties of Molybdenum Chalcogenide Nanowires. Physical Review Letters, 2007, 99, 085503.	2.9	30
139	Treatment of Collinear and Noncollinear Electron Spin within an Approximate Density Functional Based Method. Journal of Physical Chemistry A, 2007, 111, 5622-5629.	1.1	55
140	Infrared Spectra of Alkylphosphonic Acid Bound to Aluminium Surfaces. Macromolecular Symposia, 2007, 254, 248-253.	0.4	74
141	Titanium oxide fullerenes: electronic structure and basic trends in their stability. Physical Chemistry Chemical Physics, 2007, 9, 5772.	1.3	7
142	Optical Excitations in Cadmium Sulfide Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 10761-10770.	1.5	57
143	Hydrogen Sieving and Storage in Fullerene Intercalated Graphite. Nano Letters, 2007, 7, 1-5.	4.5	92
144	Microscopic Investigation of Shear in Multiwalled Nanotube Deformation. Journal of Physical Chemistry C, 2007, 111, 8432-8436.	1.5	33

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145	Car-Parrinello treatment for an approximate density-functional theory method. Journal of Chemical Physics, 2007, 126, 124103.	1.2	19
146	3dmetal nanowires and clusters inside carbon nanotubes: Structural, electronic, and magnetic properties. Physical Review B, 2007, 75, .	1.1	102
147	Imogolite Nanotubes: Stability, Electronic, and Mechanical Properties. ACS Nano, 2007, 1, 362-368.	7.3	172
148	Electronic properties and optical spectra of MoS_2 and WS_2 . <small>xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> and WS_2. <small>xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">W</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math></small></small>	1.1	68
149	Structure and Stability of Molybdenum Sulfide Fullerenes. Angewandte Chemie - International Edition, 2007, 46, 623-627.	7.2	84
150	Properties of the phosphonic-acid molecule and the proton transfer in the phosphonic-acid dimer. Computational and Theoretical Chemistry, 2007, 816, 119-123.	1.5	27
151	Curvature effects of nitrogen on graphitic sheets: Structures and energetics. Chemical Physics Letters, 2007, 447, 115-120.	1.2	32
152	Formation, Structure, and Polymorphism of Novel Lowest-Dimensional AgI Nanoaggregates by Encapsulation in Carbon Nanotubes. Small, 2007, 3, 1730-1734.	5.2	21
153	Catalysts on the edge. Nature Nanotechnology, 2007, 2, 21-22.	15.6	23
154	Simulation of Inorganic Nanotubes. Springer Series in Materials Science, 2007, , 33-57.	0.4	26
155	Extending the scope of $\tilde{\text{in silico}}$ experiments TM : Theoretical approaches for the investigation of reaction mechanisms, nucleation events and phase transitions. Science and Technology of Advanced Materials, 2007, 8, 434-441.	2.8	10
156	Infrared Spectra of Alkylphosphonic Acid Bound to Aluminium Surfaces. Macromolecular Symposia, 2007, 254, 248-253.	0.4	2
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