

Thomas Frauenheim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3867030/publications.pdf>

Version: 2024-02-01

589
papers

30,043
citations

4641

85
h-index

7496

151
g-index

602
all docs

602
docs citations

602
times ranked

22883
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolayer PC3: A promising material for environmentally toxic nitrogen-containing multi gases. Journal of Hazardous Materials, 2022, 422, 126761.	6.5	25
2	Group three nitride clusters as promising components for nanoelectronics. Materials Today Chemistry, 2022, 23, 100751.	1.7	2
3	Dynamical evolution of the Schottky barrier as a determinant contribution to electron-hole pair stabilization and photocatalysis of plasmon-induced hot carriers. Nanoscale, 2022, 14, 2816-2825.	2.8	11
4	Carrier doping-induced strong magnetoelastic coupling in 2D lattice. Nanoscale, 2022, 14, 3261-3268.	2.8	5
5	Universal co-existence of photovoltaics and ferroelectricity from a two-dimensional 3R bilayer BX (X) Tj ETQq1 1 0.784314 rgBT / Over	2.7	97
6	Fano Resonance and Incoherent Interlayer Excitons in Molecular van der Waals Heterostructures. Nano Letters, 2022, 22, 911-917.	4.5	4
7	Density functional tight binding approach utilized to study X-ray-induced transitions in solid materials. Scientific Reports, 2022, 12, 1551.	1.6	11
8	Plasmon-Enhanced Exciton Delocalization in Squaraine-Type Molecular Aggregates. ACS Nano, 2022, 16, 4693-4704.	7.3	6
9	Ultrafast Light-Induced Ferromagnetic State in Transition Metal Dichalcogenides Monolayers. Journal of Physical Chemistry Letters, 2022, 13, 2765-2771.	2.1	9
10	Transverse electronic transport through nucleobase-pairs of a DNA wire. Materials Today Chemistry, 2022, 24, 100834.	1.7	2
11	First-Principles Study of Honeycomb Borophene on the Mo ₂ C Substrate. Journal of Physical Chemistry C, 2022, 126, 7288-7293.	1.5	1
12	Tunable Surface Chemistry in Heterogeneous Bilayer Single-Atom Catalysts for Electrocatalytic NO _x Reduction to Ammonia. Advanced Functional Materials, 2022, 32, .	7.8	30
13	Ultrahigh Electron Thermal Conductivity in Graphene, Biphenylene, and Net-Graphene. Advanced Energy Materials, 2022, 12, .	10.2	26
14	Anisotropic Phononic and Electronic Thermal Transport in BeN ₄ . Journal of Physical Chemistry Letters, 2022, , 4501-4505.	2.1	5
15	Light-Controlled Ultrafast Magnetic State Transition in Antiferromagnetic-Ferromagnetic van der Waals Heterostructures. Journal of Physical Chemistry Letters, 2022, 13, 6223-6229.	2.1	5
16	Intermolecular conical intersections in molecular aggregates. Nature Nanotechnology, 2021, 16, 63-68.	15.6	22
17	Structural, electronic, and thermodynamic properties of TiO ₂ /organic clusters: performance of DFTB method with different parameter sets. International Journal of Quantum Chemistry, 2021, 121, e26427.	1.0	7
18	Photoinduced charge-transfer in chromophore-labeled gold nanoclusters: quantum evidence of the critical role of ligands and vibronic couplings. Nanoscale, 2021, 13, 6786-6797.	2.8	8

#	ARTICLE	IF	CITATIONS
19	Possibilities and Limits of Decreasing the Gap of Anatase TiO ₂ by Alloying with Nitrogen. Journal of Physical Chemistry C, 2021, 125, 3192-3197.	1.5	3
20	High-Throughput Screening of Synergistic Transition Metal Dual-Atom Catalysts for Efficient Nitrogen Fixation. Nano Letters, 2021, 21, 1871-1878.	4.5	223
21	Ni/Mo Bimetallic Oxide-Derived Heterointerface-Rich Sulfide Nanosheets with Co-Doping for Efficient Alkaline Hydrogen Evolution by Boosting Volmer Reaction. Small, 2021, 17, e2006730.	5.2	95
22	Self-Consistent Potential Correction for Charged Periodic Systems. Physical Review Letters, 2021, 126, 076401.	2.9	44
23	Unravelling Photoinduced Interlayer Spin Transfer Dynamics in Two-Dimensional Nonmagnetic-Ferromagnetic van der Waals Heterostructures. Nano Letters, 2021, 21, 3237-3244.	4.5	29
24	Common Defects Accelerate Charge Separation and Reduce Recombination in CNT/Molecule Composites: Atomistic Quantum Dynamics. Journal of the American Chemical Society, 2021, 143, 6649-6656.	6.6	35
25	Possibility of Doping $CuGaSe$ -Type by Hydrogen. Physical Review Applied, 2021, 15, .		
26	Identification of the Nitrogen Interstitial as Origin of the 3.1 eV Photoluminescence Band in Hexagonal Boron Nitride. Physica Status Solidi (B): Basic Research, 2021, 258, 2100031.	0.7	3
27	Ultralow Thermal Conductivity in Two-Dimensional MoO ₃ . Nano Letters, 2021, 21, 4351-4356.	4.5	35
28	Electric Field Tunable Ultrafast Interlayer Charge Transfer in Graphene/WS ₂ Heterostructure. Nano Letters, 2021, 21, 4403-4409.	4.5	15
29	New Pentaoctite Phase of Group V Nanostructures. Physica Status Solidi (B): Basic Research, 2021, 258, 2100112.	0.7	1
30	Revealing generation, migration, and dissociation of electron-hole pairs and current emergence in an organic photovoltaic cell. Science Advances, 2021, 7, .	4.7	15
31	Water Reactions on Reconstructed Rutile TiO ₂ : A Density Functional Theory/Density Functional Tight Binding Approach. Journal of Physical Chemistry C, 2021, 125, 13234-13246.	1.5	9
32	Using DFTB to Model Photocatalytic Anatase-Rutile TiO ₂ Nanocrystalline Interfaces and Their Band Alignment. Journal of Chemical Theory and Computation, 2021, 17, 5239-5247.	2.3	3
33	Robust Giant Magnetoresistance in 2D Van der Waals Molecular Magnetic Tunnel Junctions. ACS Applied Materials & Interfaces, 2021, 13, 36098-36105.	4.0	8
34	Phononic Thermal Transport along Graphene Grain Boundaries: A Hidden Vulnerability. Advanced Science, 2021, 8, 2101624.	5.6	8
35	Construction of Nickel-Based Dual Heterointerfaces towards Accelerated Alkaline Hydrogen Evolution via Boosting Multi-Step Elementary Reaction. Advanced Functional Materials, 2021, 31, 2104827.	7.8	42
36	Activity and Mechanism Mapping of Photocatalytic NO ₂ Conversion on the Anatase TiO ₂ (101) Surface. Journal of Physical Chemistry Letters, 2021, 12, 7708-7716.	2.1	7

#	ARTICLE	IF	CITATIONS
37	Tuning electronic and optical properties of bismuth monolayers by molecular adsorption. Surface Science, 2021, 710, 121849.	0.8	3
38	Artificial Intelligence Designer for Highly-Efficient Organic Photovoltaic Materials. Journal of Physical Chemistry Letters, 2021, 12, 8847-8854.	2.1	15
39	Stacking Engineering: A Boosting Strategy for 2D Photocatalysts. Journal of Physical Chemistry Letters, 2021, 12, 10190-10196.	2.1	25
40	Tuning Magnetic Anisotropy in Two-Dimensional Metal-Semiconductor Janus van der Waals Heterostructures. Journal of Physical Chemistry Letters, 2021, 12, 11308-11315.	2.1	2
41	Electronic Properties of Defective MoS ₂ Monolayers Subject to Mechanical Deformations: A First-Principles Approach. Physica Status Solidi (B): Basic Research, 2020, 257, 1900541.	0.7	8
42	Optically Driven Ultrafast Magnetic Order Transitions in Two-Dimensional Ferrimagnetic MXenes. Journal of Physical Chemistry Letters, 2020, 11, 6219-6226.	2.1	36
43	Ultrafast Real-Time Dynamics of CO Oxidation over an Oxide Photocatalyst. ACS Catalysis, 2020, 10, 13650-13658.	5.5	11
44	Electron paramagnetic resonance and theoretical study of gallium vacancy in $\text{In}^2\text{-Ga}_2\text{O}_3$. Applied Physics Letters, 2020, 117, .	1.5	33
45	Exploring charge density distribution and electronic properties of hybrid organic-germanium layers. Physical Chemistry Chemical Physics, 2020, 22, 22055-22065.	1.3	2
46	Electronic Properties and Charge Transfer of Topologically Protected States in Hybrid Bismuthene Layers. Journal of Physical Chemistry C, 2020, 124, 11708-11715.	1.5	6
47	GW electronic structure calculations of cobalt defects in ZnO. Solid State Communications, 2020, 316-317, 113950.	0.9	1
48	A Real-Time Time-Dependent Density Functional Tight-Binding Implementation for Semiclassical Excited State Electron-Nuclear Dynamics and Pump-Probe Spectroscopy Simulations. Journal of Chemical Theory and Computation, 2020, 16, 4454-4469.	2.3	36
49	DFTB+, a software package for efficient approximate density functional theory based atomistic simulations. Journal of Chemical Physics, 2020, 152, 124101.	1.2	589
50	Inartificial Two-Dimensional Ge ₄ Se ₉ Janus Structures with Appropriate Direct Band Gaps and Intrinsic Polarization Boosted Charge Separation for Photocatalytic Water Splitting. Journal of Physical Chemistry Letters, 2020, 11, 3095-3102.	2.1	26
51	An adaptive design approach for defects distribution modeling in materials from first-principle calculations. Journal of Molecular Modeling, 2020, 26, 187.	0.8	11
52	Koopmans-compliant screened exchange potential with correct asymptotic behavior for semiconductors. Physical Review B, 2020, 102, .	1.1	9
53	Intrinsic defects of GaSe. Journal of Physics Condensed Matter, 2020, 32, 285503.	0.7	4
54	Crystal structure and temperature-dependent properties of Na ₂ H ₄ Ga ₂ GeO ₈ a novel gallogermanate. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 805-813.	0.3	0

#	ARTICLE	IF	CITATIONS
55	Densely-packed bundles of collapsed carbon nanotubes: Atomistic and mesoscopic distinct element method modeling. Carbon, 2019, 152, 198-205.	5.4	12
56	Optimized hybrid functionals for defect calculations in semiconductors. Journal of Applied Physics, 2019, 126, 130901.	1.1	27
57	Coherent Real-Space Charge Transport Across a Donor-Acceptor Interface Mediated by Vibronic Couplings. Nano Letters, 2019, 19, 8630-8637.	4.5	14
58	Ultrafast Dynamics through a Conical Intersection in an Organic Photovoltaic Thin Film Probed by two-Dimensional Electronic Spectroscopy. , 2019, , .		0
59	Electronic and Optical Properties of Functionalized GaN(101 $\bar{0}$) Surfaces using Hybrid-Density Functionals. Physica Status Solidi (B): Basic Research, 2019, 256, 1800455.	0.7	2
60	Transition Metal and Rare Earth Element Doped Zinc Oxide Nanowires for Optoelectronics. Physica Status Solidi (B): Basic Research, 2019, 256, 1800604.	0.7	30
61	Dephasing in a Molecular Junction Viewed from a Time-Dependent and a Time-Independent Perspective. Journal of Physical Chemistry C, 2019, 123, 9590-9599.	1.5	5
62	SLABCC: Total energy correction code for charged periodic slab models. Computer Physics Communications, 2019, 240, 101-105.	3.0	9
63	Carbon in GaN: Calculations with an optimized hybrid functional. Physical Review B, 2019, 99, .	1.1	32
64	Plasmon-induced hot-carrier generation differences in gold and silver nanoclusters. Nanoscale, 2019, 11, 8604-8615.	2.8	51
65	Simulation of Impulsive Vibrational Spectroscopy. Journal of Physical Chemistry A, 2019, 123, 2065-2072.	1.1	10
66	Carrier multiplication in van der Waals layered transition metal dichalcogenides. Nature Communications, 2019, 10, 5488.	5.8	41
67	Defect calculations with hybrid functionals in layered compounds and in slab models. Physical Review B, 2019, 100, .	1.1	9
68	Collapsed carbon nanotubes: From nano to mesoscale via density functional theory-based tight-binding objective molecular modeling. Carbon, 2019, 143, 786-792.	5.4	12
69	Optoelectronic Properties of Zinc Oxide: A First-Principles Investigation Using the Tran-Blaha Modified Becke-Johnson Potential. Physica Status Solidi (B): Basic Research, 2019, 256, 1800380.	0.7	6
70	Predicting Two-Dimensional C ₃ B ₃ N van der Waals Heterojunction with Strong Interlayer Electron Coupling and Enhanced Photocurrent. Journal of Physical Chemistry Letters, 2018, 9, 858-862.	2.1	74
71	Non-Markovian quantum processes: Complete framework and efficient characterization. Physical Review A, 2018, 97, .	1.0	202
72	Operational Markov Condition for Quantum Processes. Physical Review Letters, 2018, 120, 040405.	2.9	157

#	ARTICLE	IF	CITATIONS
73	Origin of photoluminescence in cmml:math $\langle \text{mml:mrow} \langle \text{mml:mi} \hat{I}^2 \langle \text{mml:mi} \langle \text{mml:mo} \hat{a} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle G \langle \text{mml:mi} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle a \langle \text{mml:mi} \langle \text{mml:mn} 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle O \langle \text{mml:mi} \langle \text{mml:mn} 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle .$ Physical Review B, 2018, 97, .	1.1	104
74	Exploring Surface Effects in Co Doped ZnO Nanowires With Hybrid Density Functional Theory. Physica Status Solidi (B): Basic Research, 2018, 255, 1800421.	0.7	1
75	Theoretical confirmation of the polaron model for the Mg acceptor in \hat{I}^2 -Ga2O3. Journal of Applied Physics, 2018, 124, .	1.1	34
76	Vibronic dephasing model for coherent-to-incoherent crossover in DNA. Physical Review B, 2018, 97, .	1.1	7
77	Fully Atomistic Real-Time Simulations of Transient Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 4355-4359.	2.1	21
78	Efficient Automatized Density-Functional Tight-Binding Parametrizations: Application to Group IV Elements. Journal of Chemical Theory and Computation, 2018, 14, 2947-2954.	2.3	18
79	Density functional based tight-binding parametrization of hafnium oxide: Simulations of amorphous structures. Physical Review B, 2018, 98, .	1.1	6
80	Core structure of dislocations in GaN revealed by transmission electron microscopy. , 2018, , 323-326.		0
81	Atomistic Analysis of Room Temperature Quantum Coherence in Two-Dimensional CdSe Nanostructures. Nano Letters, 2017, 17, 2389-2396.	4.5	29
82	Time-Dependent Extension of the Long-Range Corrected Density Functional Based Tight-Binding Method. Journal of Chemical Theory and Computation, 2017, 13, 1737-1747. Choosing the correct hybrid for defect calculations: A case study on indium carrier trapping in	2.3	67
83	$\langle \text{mml:math}$ $\langle \text{mml:mrow} \langle \text{mml:mi} \hat{I}^2 \langle \text{mml:mi} \langle \text{mml:mo} \hat{a} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle G \langle \text{mml:mi} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle a \langle \text{mml:mi} \langle \text{mml:mn} 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle O \langle \text{mml:mi} \langle \text{mml:mn} 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle .$ Physi	1.1	184
84	The spectral adjustment in nanoscale transport combined with the density functional based tight binding method. Computational Materials Science, 2017, 133, 14-21.	1.4	3
85	Charge transfer excitations from particle-particle random phase approximation Opportunities and challenges arising from two-electron deficient systems. Journal of Chemical Physics, 2017, 146, 124104.	1.2	10
86	Two-dimensional hydrogenated molybdenum and tungsten dinitrides $\text{MN}_{2}\text{H}_{2}$ (M = Mo, W) as novel quantum spin hall insulators with high stability. Nanoscale, 2017, 9, 1007-1013.	2.8	15
87	Self-Consistent-Charge Density-Functional Tight-Binding (SCC-DFTB) Parameters for Ceria in 0D to 3D. Journal of Physical Chemistry C, 2017, 121, 4593-4607.	1.5	21
88	Optically and Electrically Controllable Adatom Spin-orbital Dynamics in Transition Metal Dichalcogenides. Nano Letters, 2017, 17, 6721-6726.	4.5	4
89	Defect physics in intermediate-band materials: Insights from an optimized hybrid functional. Physical Review B, 2017, 96, .	1.1	13
90	Application of the Lany-Zunger polaron correction for calculating surface charge trapping. Journal of Physics Condensed Matter, 2017, 29, 394001.	0.7	11

#	ARTICLE	IF	CITATIONS
91	Properties of the Free-Standing Two-Dimensional Copper Monolayer. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-6.	1.5	13
92	Coexistence of Three Ferroic Orders in the Multiferroic Compound $[(\text{CH}_3)_4\text{N}][\text{Mn}(\text{N}_3)_3]$ with Perovskite-Like Structure. <i>Chemistry - A European Journal</i> , 2016, 22, 7863-7870.	1.7	54
93	A Self Energy Model of Dephasing in Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16383-16392.	1.5	12
94	Quantum mechanical modeling the emission pattern and polarization of nanoscale light emitting diodes. <i>Nanoscale</i> , 2016, 8, 13168-13173.	2.8	12
95	Novel Excitonic Solar Cells in Phosphorene-TiO ₂ Heterostructures with Extraordinary Charge Separation Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1880-1887.	2.1	51
96	Two-dimensional rectangular tantalum carbide halides TaCX (X = Cl, Br, I): novel large-gap quantum spin Hall insulators. <i>2D Materials</i> , 2016, 3, 035018.	2.0	21
97	A graphene-like Mg ₃ N ₂ monolayer: high stability, desirable direct band gap and promising carrier mobility. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30379-30384.	1.3	29
98	Directional-dependent thickness and bending rigidity of phosphorene. <i>Physical Review B</i> , 2016, 94, .	1.1	16
99	Doped graphenes as anodes with large capacity for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13407-13413.	5.2	57
100	Prediction of the quantum spin Hall effect in monolayers of transition-metal carbides MC (M = Ti, Zr). <i>Journal of Applied Physics</i> , 2016, 119, 205401.	2.0	31
101	Many-body electronic structure calculations of Eu-doped ZnO. <i>Physical Review B</i> , 2016, 93, .	1.1	20
102	Sustainable Nanotechnology: Opportunities and Challenges for Theoretical/Computational Studies. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7297-7306.	1.2	52
103	Water splitting and the band edge positions of TiO ₂ . <i>Electrochimica Acta</i> , 2016, 199, 27-34.	2.6	64
104	Nonadiabatic Molecular Dynamics for Thousand Atom Systems: A Tight-Binding Approach toward PYXAID. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1436-1448.	2.3	93
105	Automatized Parameterization of the Density-Functional Tight-Binding Method. II. Two-center Integrals. <i>Journal of the Chinese Chemical Society</i> , 2016, 63, 57-68.	0.8	13
106	Light Absorption of Contacted Molecules: Insights and Impediments from Atomistic Simulations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3699-3704.	1.5	1
107	Driven Liouville von Neumann Equation in Lindblad Form. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3278-3285.	1.1	33
108	New quantum spin Hall insulator in two-dimensional MoS ₂ with periodically distributed pores. <i>Nanoscale</i> , 2016, 8, 4915-4921.	2.8	20

#	ARTICLE	IF	CITATIONS
109	SiC ₇ siligraphene: a novel donor material with extraordinary sunlight absorption. Nanoscale, 2016, 8, 6994-6999.	2.8	70
110	Oxygen deficiency in TiO_2 : Similarities and differences between the Ti self-interstitial and the O vacancy in bulk rutile and anatase. Physical Review B, 2015, 92, .	1.1	57
111	How the aggregation of oxygen vacancies in rutile-based TiO_2 causes memristive behavior. Physical Review B, 2015, 92, .		
112	Atomic level simulation of permittivity of oxidized ultra-thin Si channels. , 2015, , .		0
113	SCCâ€DFTB parameters for simulating hybrid goldâ€thiolates compounds. Journal of Computational Chemistry, 2015, 36, 2075-2087.	1.5	82
114	Atomic level simulation of permittivity of oxidized ultra-thin si channels. , 2015, , .		0
115	Two-Dimensional Cu ₂ Si Monolayer with Planar Hexacoordinate Copper and Silicon Bonding. Journal of the American Chemical Society, 2015, 137, 2757-2762.	6.6	335
116	Robust Two-Dimensional Topological Insulators in Methyl-Functionalized Bismuth, Antimony, and Lead Bilayer Films. Nano Letters, 2015, 15, 1083-1089.	4.5	166
117	Nitrogen(II) Oxide Charge Transfer Complexes on TiO_2 : A New Source for Visible-Light Activity. Journal of Physical Chemistry C, 2015, 119, 4488-4501.	1.5	33
118	Atomic Level Modeling of Extremely Thin Silicon-on-Insulator MOSFETs Including the Silicon Dioxide: Electronic Structure. IEEE Transactions on Electron Devices, 2015, 62, 696-704.	1.6	27
119	Proximity enhanced quantum spin Hall state in graphene. Carbon, 2015, 87, 418-423.	5.4	29
120	Extended Lagrangian Density Functional Tight-Binding Molecular Dynamics for Molecules and Solids. Journal of Chemical Theory and Computation, 2015, 11, 3357-3363.	2.3	26
121	The new dimension of silver. Physical Chemistry Chemical Physics, 2015, 17, 19695-19699.	1.3	52
122	Post-anti-van't Hoff-Le Bel motif in atomically thin germaniumâ€copper alloy film. Physical Chemistry Chemical Physics, 2015, 17, 17545-17551.	1.3	81
123	Versatile Single-Layer Sodium Phosphidostannate(II): Strain-Tunable Electronic Structure, Excellent Mechanical Flexibility, and an Ideal Gap for Photovoltaics. Journal of Physical Chemistry Letters, 2015, 6, 2682-2687.	2.1	60
124	Accurate Hydrogen Bond Energies within the Density Functional Tight Binding Method. Journal of Physical Chemistry A, 2015, 119, 3535-3544.	1.1	20
125	Controllable magnetic correlation between two impurities by spin-orbit coupling in graphene. Scientific Reports, 2015, 5, 8943.	1.6	16
126	Structural and Electronic Properties of Layered Arsenic and Antimony Arsenide. Journal of Physical Chemistry C, 2015, 119, 6918-6922.	1.5	210

#	ARTICLE	IF	CITATIONS
127	Narrow bandgap covalent organic frameworks with strong optical response in the visible and infrared. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2244-2254.	2.7	18
128	Graphene-covered perovskites: an effective strategy to enhance light absorption and resist moisture degradation. <i>RSC Advances</i> , 2015, 5, 82346-82350.	1.7	43
129	Toward Rational Design of Catalysts Supported on a Topological Insulator Substrate. <i>ACS Catalysis</i> , 2015, 5, 7063-7067.	5.5	73
130	New Family of Quantum Spin Hall Insulators in Two-dimensional Transition-Metal Halide with Large Nontrivial Band Gaps. <i>Nano Letters</i> , 2015, 15, 7867-7872.	4.5	104
131	Ten new predicted covalent organic frameworks with strong optical response in the visible and near infrared. <i>Journal of Chemical Physics</i> , 2015, 142, 244706.	1.2	11
132	Controlling Electronic Structure and Transport Properties of Zigzag Graphene Nanoribbons by Edge Functionalization with Fluorine. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21227-21233.	1.5	17
133	Permittivity of Oxidized Ultra-Thin Silicon Films From Atomistic Simulations. <i>IEEE Electron Device Letters</i> , 2015, 36, 1076-1078.	2.2	28
134	Resolving the Controversy about the Band Alignment between Rutile and Anatase: The Role of OH ⁺ /H ⁺ Adsorption. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21952-21958.	1.5	43
135	Glitter in a 2D monolayer. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26036-26042.	1.3	68
136	Revealing unusual chemical bonding in planar hyper-coordinate Ni ₂ Ge and quasi-planar Ni ₂ Si two-dimensional crystals. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26043-26048.	1.3	95
137	Quantum spin Hall states in graphene interacting with WS ₂ or WSe ₂ . <i>Applied Physics Letters</i> , 2014, 105, .	1.5	67
138	Phthalocyanine adsorption to graphene on Ir(111): Evidence for decoupling from vibrational spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 141, 184308.	1.2	26
139	Publisher's Note: Formation of NV centers in diamond: A theoretical study based on calculated transitions and migration of nitrogen and vacancy related defects [<i>Phys. Rev. B</i> 89, 075203 (2014)]. <i>Physical Review B</i> , 2014, 89, .	1.1	10
140	Reduction of the TiO ₂ melting temperature induced by oxygen deficiency with implications on experimental data accuracy and structural transition processes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 549-553.	1.2	12
141	Charge-doping-induced phase transitions in hydrogenated and fluorinated graphene. <i>Physical Review B</i> , 2014, 90, .	1.1	4
142	Theoretical study of charge separation at the rutile-anatase interface. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 566-570.	1.2	22
143	Preface: Focus on Functional Oxides. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 451-452.	1.2	5
144	Theoretical investigations of the electronic properties of functionalized zinc-oxide nanowires. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0

#	ARTICLE	IF	CITATIONS
145	TiO ₂ Nanowires as a Wide Bandgap Dirac Material: a numerical study of impurity scattering and Anderson disorder. Materials Research Society Symposia Proceedings, 2014, 1659, 187-191.	0.1	0
146	Towards atomic level simulation of electron devices including the semiconductor-oxide interface. , 2014, , .		9
147	The dielectric response of low-k interlayer dielectric material characterized by electron energy loss spectroscopy. Microporous and Mesoporous Materials, 2014, 187, 23-28.	2.2	4
148	Strain engineering of selective chemical adsorption on monolayer MoS ₂ . Nanoscale, 2014, 6, 5156-5161.	2.8	177
149	Negative differential gain in quantum dot systems: Interplay of structural properties and many-body effects. Applied Physics Letters, 2014, 104, 242108.	1.5	8
150	Influence of porosity and methyl doping inside silica network: An electron diffraction and DFTB analysis. Microporous and Mesoporous Materials, 2014, 200, 145-150.	2.2	0
151	Robust 2D Topological Insulators in van der Waals Heterostructures. ACS Nano, 2014, 8, 10448-10454.	7.3	88
152	Formation of Helices in Graphene Nanoribbons under Torsion. Journal of Physical Chemistry Letters, 2014, 5, 4083-4087.	2.1	14
153	Polarons and oxygen vacancies at the surface of anatase TiO ₂ . Physica Status Solidi - Rapid Research Letters, 2014, 8, 583-586.	1.2	46
154	The role of water co-adsorption on the modification of ZnO nanowires using acetic acid. Physical Chemistry Chemical Physics, 2014, 16, 8509-8514.	1.3	8
155	Theoretical prediction of carbon dioxide reduction to methane at coordinatively unsaturated ferric site in the presence of Cu impurities. Physical Chemistry Chemical Physics, 2014, 16, 3515.	1.3	4
156	Opening a band gap without breaking lattice symmetry: a new route toward robust graphene-based nanoelectronics. Nanoscale, 2014, 6, 7474.	2.8	16
157	Proper Surface Termination for Luminescent Near-Surface NV Centers in Diamond. Nano Letters, 2014, 14, 4772-4777.	4.5	125
158	Structural Evolution of Cu/ZnO Active Sites: From Reactive Environment to Ultrahigh Vacuum. ChemCatChem, 2014, 6, 2322-2326.	1.8	5
159	Oxygen vacancy diffusion in bare ZnO nanowires. Nanoscale, 2014, 6, 11882-11886.	2.8	29
160	First principles investigations on the electronic structure of anchor groups on ZnO nanowires and surfaces. Journal of Applied Physics, 2014, 115, .	1.1	16
161	Phosphorene as a Superior Gas Sensor: Selective Adsorption and Distinct I vs V Response. Journal of Physical Chemistry Letters, 2014, 5, 2675-2681.	2.1	877
162	Molecular dynamics simulations of the amino acid-ZnO (10-10) interface: A comparison between density functional theory and density functional tight binding results. Journal of Chemical Physics, 2014, 140, 234707.	1.2	11

#	ARTICLE	IF	CITATIONS
163	Formation of NV centers in diamond: A theoretical study based on calculated transitions and migration of nitrogen and vacancy related defects. Physical Review B, 2014, 89, .	1.1	149
164	Stabilization Mechanism of ZnO Nanoparticles by Fe Doping. Physical Review Letters, 2014, 112, 106102.	2.9	24
165	Graphene nucleation on a surface-molten copper catalyst: quantum chemical molecular dynamics simulations. Chemical Science, 2014, 5, 3493-3500.	3.7	40
166	Polar EuO(111) on Ir(111): A two-dimensional oxide. Physical Review B, 2014, 89, .	1.1	6
167	Intense Intrashell Luminescence of Eu-Doped Single ZnO Nanowires at Room Temperature by Implantation Created Eu ⁱ O _i Complexes. Nano Letters, 2014, 14, 4523-4528.	4.5	63
168	CO ₂ reduction at low overpotential on Cu electrodes in the presence of impurities at the subsurface. Journal of Materials Chemistry A, 2014, 2, 4885-4889.	5.2	34
169	The atomic structure of ternary amorphous Ti _x Si _{1-x} O ₂ hybrid oxides. Journal of Physics Condensed Matter, 2014, 26, 253201.	0.7	7
170	Parameterization of Halogens for the Density-Functional Tight-Binding Description of Halide Hydration. Journal of Chemical Theory and Computation, 2013, 9, 3321-3332.	2.3	12
171	Fe-Doped ZnO Nanoparticles: The Oxidation Number and Local Charge on Iron, Studied by ⁵⁷ Fe Mössbauer Spectroscopy and DFT Calculations. Chemistry - A European Journal, 2013, 19, 3287-3291.	1.7	26
172	Signatures in vibrational and UV-visible absorption spectra for identifying cyclic hydrocarbons by graphene fragments. Nanoscale, 2013, 5, 12178.	2.8	15
173	Graphene-Based Topological Insulator with an Intrinsic Bulk Band Gap above Room Temperature. Nano Letters, 2013, 13, 6251-6255.	4.5	116
174	Extensions of the Time-Dependent Density Functional Based Tight-Binding Approach. Journal of Chemical Theory and Computation, 2013, 9, 4901-4914.	2.3	57
175	Computational approach for structure design and prediction of optical properties in amorphous TiO ₂ thin-film coatings. Journal Physics D: Applied Physics, 2013, 46, 325302.	1.3	31
176	Controllable Magnetic Doping of the Surface State of a Topological Insulator. Physical Review Letters, 2013, 110, 126804.	2.9	98
177	How small nanodiamonds can be? MD study of the stability against graphitization. Diamond and Related Materials, 2013, 33, 78-84.	1.8	9
178	Temperature-Mediated Magnetism in Fe-Doped ZnO Semiconductors. Journal of Physical Chemistry C, 2013, 117, 5338-5342.	1.5	17
179	Atomistic Modeling of Charge Transport across a Carbon Nanotube-Polyethylene Junction. Journal of Physical Chemistry C, 2013, 117, 8020-8027.	1.5	17
180	Gas Doping on the Topological Insulator Bi_2Se_3 Surface. Physical Review Letters, 2013, 110, 126804.	2.9	30

#	ARTICLE	IF	CITATIONS
181	Intrinsic Charge Separation and Tunable Electronic Band Gap of Armchair Graphene Nanoribbons Encapsulated in a Double-Walled Carbon Nanotube. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1328-1333.	2.1	13
182	Emergent properties and trends of a new class of carbon nanocomposites: graphene nanoribbons encapsulated in a carbon nanotube. <i>Nanoscale</i> , 2013, 5, 3306.	2.8	12
183	Parametrization of the SCC-DFTB Method for Halogens. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2939-2949.	2.3	54
184	Theoretical Insights into CO ₂ Activation and Reduction on the Ag(111) Monolayer Supported on a ZnO(0001) Substrate. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1804-1808.	1.5	50
185	Nanoscale Multilayer Transition-Metal Dichalcogenide Heterostructures: Band Gap Modulation by Interfacial Strain and Spontaneous Polarization. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1730-1736.	2.1	142
186	An SCC-DFTB Repulsive Potential for Various ZnO Polymorphs and the ZnO-Water System. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17004-17015.	1.5	42
187	Possibility of a Field Effect Transistor Based on Dirac Particles in Semiconducting Anatase-TiO ₂ Nanowires. <i>Nano Letters</i> , 2013, 13, 1073-1079.	4.5	10
188	Magnetic impurity affected by spin-orbit coupling: Behavior near a topological phase transition. <i>Physical Review B</i> , 2013, 88, .	1.1	10
189	Molecular dynamics simulations of the tribological behaviour of a water-lubricated amorphous carbon-fluorine PECVD coating. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013, 21, 055027.	0.8	6
190	Permutation-invariant collective variable to track and drive vacancy dynamics in simulations of solids. <i>Physical Review B</i> , 2013, 88, .	1.1	3
191	Ewald summation on a helix: A route to self-consistent charge density-functional based tight-binding objective molecular dynamics. <i>Journal of Chemical Physics</i> , 2013, 139, 094110.	1.2	9
192	Atomistic modeling of dynamical quantum transport. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2349-2354.	0.7	6
193	Dynamic Simulation of the Migration of Oxygen Vacancy Defects in Rutile TiO ₂ . <i>Materials Research Society Symposia Proceedings</i> , 2012, 1430, 49.	0.1	2
194	Quantitative theory of the oxygen vacancy and carrier self-trapping in bulk TiO ₂ . <i>Physical Review B</i> , 2012, 86, .	1.1	169
195	Atomistic Simulations of the ZnO(110)/Water Interface: A Comparison between First-Principles, Tight-Binding, and Empirical Methods. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4517-4526.	2.3	21
196	Activity and Synergy Effects on a Cu/ZnO(0001) Surface Studied Using First-Principle Thermodynamics. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2638-2642.	2.1	28
197	On the stabilization mechanisms of organic functional groups on ZnO surfaces. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15445.	1.3	28
198	SCC-DFTB Parametrization for Boron and Boranes. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1153-1163.	2.3	26

#	ARTICLE	IF	CITATIONS
199	Substrate mediated stabilization of methylphosphonic acid on ZnO non-polar surfaces'. Surface Science, 2012, 606, 289-292.	0.8	6
200	First-principles investigation of adsorption of N ₂ O on the anatase TiO ₂ (101) and the CO pre-adsorbed TiO ₂ surfaces. Computational Materials Science, 2012, 58, 24-30.	1.4	21
201	Activation mechanism of carbon monoxide on $\hat{1}\pm\text{-Fe}_{2}\text{O}_{3}$ (0001) surface studied by using first principle calculations. Applied Physics Letters, 2012, 101, 041603.	1.5	3
202	Fingerprints of order and disorder in the electronic and optical properties of crystalline and amorphous TiO ₂ . Physical Review B, 2012, 86, .	1.1	65
203	Tuning Magnetism and Electronic Phase Transitions by Strain and Electric Field in Zigzag MoS ₂ Nanoribbons. Journal of Physical Chemistry Letters, 2012, 3, 2934-2941.	2.1	229
204	Electrically Active Screw Dislocations in Helical ZnO and Si Nanowires and Nanotubes. ACS Nano, 2012, 6, 10042-10049.	7.3	17
205	Functionalization of ZnO surfaces with organic molecules. Proceedings of SPIE, 2012, , .	0.8	1
206	Identification of defects at the interface between 3C-SiC quantum dots and a SiO ₂ embedding matrix. Physica Status Solidi (B): Basic Research, 2012, 249, 360-367.	0.7	6
207	Excited state properties of Si quantum dots. Physica Status Solidi (B): Basic Research, 2012, 249, 401-412.	0.7	24
208	Comparison of Nb- and Ta-doping of anatase TiO ₂ for transparent conductor applications. Journal of Applied Physics, 2012, 112, .	1.1	36
209	Kinetic Monte Carlo Simulation of the Adsorption Competition of Epoxide Components on the Aluminium Oxide Surface. Soft Materials, 2012, 10, 235-256.	0.8	0
210	Proton transport in functionalised additives for PEM fuel cells: contributions from atomistic simulations. Chemical Society Reviews, 2012, 41, 5143.	18.7	27
211	A complete set of self-consistent charge density-functional tight-binding parametrization of zinc chalcogenides (ZnX; X=O, S, Se, and Te). Journal of Computational Chemistry, 2012, 33, 1165-1178.	1.5	30
212	Electron Transport Suppression from Tip- $\tilde{\text{F}}$ State Interaction on Si(100)-2 \times 1 Surfaces. Journal of Chemical Theory and Computation, 2011, 7, 707-712.	2.3	4
213	Self-Consistent-Charge Density-Functional Tight-Binding Parameters for Cd-X (X = S, Se, Te) Compounds and Their Interaction with H, O, C, and N. Journal of Chemical Theory and Computation, 2011, 7, 2262-2276.	2.3	45
214	Time-dependent versus static quantum transport simulations beyond linear response. Physical Review B, 2011, 83, .	1.1	47
215	Role of Symmetry in the Stability and Electronic Structure of Titanium Dioxide Nanowires. Journal of Physical Chemistry C, 2011, 115, 18494-18499.	1.5	19
216	Glycine Adsorption on (101 $\bar{1}$ 0) ZnO Surfaces. Journal of Physical Chemistry C, 2011, 115, 6491-6495.	1.5	22

#	ARTICLE	IF	CITATIONS
217	Automated Repulsive Parametrization for the DFTB Method. Journal of Chemical Theory and Computation, 2011, 7, 2654-2664.	2.3	29
218	Kinetic aspects of the thermostatted growth of ice from supercooled water in simulations. Journal of Chemical Physics, 2011, 135, 034701.	1.2	39
219	An SCC-DFTB/MD Study of the Adsorption of Zwitterionic Glycine on a Geminal Hydroxylated Silica Surface in an Explicit Water Environment. Journal of Physical Chemistry C, 2011, 115, 9615-9621.	1.5	38
220	Polaronic effects in TiO ₂ calculated by the HSE06 hybrid functional: Dopant passivation by carrier self-trapping. Physical Review B, 2011, 83, .	1.1	176
221	Calculation of carrier-concentration-dependent effective mass in Nb-doped anatase crystals of TiO ₂ . Physical Review B, 2011, 83, .	1.1	45
222	Highly Conductive Boron Nanotubes: Transport Properties, Work Functions, and Structural Stabilities. ACS Nano, 2011, 5, 4997-5005.	7.3	106
223	Plasma and optical thin film technologies. , 2011, , .		6
224	An efficient method for quantum transport simulations in the time domain. Chemical Physics, 2011, 391, 69-77.	0.9	31
225	Band Lineup and Charge Carrier Separation in Mixed Rutile-Anatase Systems. Journal of Physical Chemistry C, 2011, 115, 3443-3446.	1.5	162
226	Dark States of Single Nitrogen-Vacancy Centers in Diamond Unraveled by Single Shot NMR. Physical Review Letters, 2011, 106, 157601.	2.9	156
227	Atomistische Simulation von amorphen TiO ₂ -Strukturen für optische Schichtsysteme. Vakuum in Forschung Und Praxis, 2011, 23, 6-8.	0.0	1
228	Accurate gap levels and their role in the reliability of other calculated defect properties. Physica Status Solidi (B): Basic Research, 2011, 248, 790-798.	0.7	43
229	Proton Conductivity of SO ₃ -Functionalized Benzene-Periodic Mesoporous Organosilica. Small, 2011, 7, 1086-1097.	5.2	36
230	Evidence for Fe ²⁺ in Wurtzite Coordination: Iron Doping Stabilizes ZnO Nanoparticles. Small, 2011, 7, 2879-2886.	5.2	44
231	Doped Nanoparticles: Evidence for Fe ²⁺ in Wurtzite Coordination: Iron Doping Stabilizes ZnO Nanoparticles (Small 20/2011). Small, 2011, 7, 2878-2878.	5.2	1
232	Time-Dependent Density Functional Calculations on Hydrogenated Silicon Carbide Nanocrystals. Materials Science Forum, 2011, 679-680, 516-519.	0.3	2
233	Influence of Oxygen on the Absorption of Silicon Carbide Nanoparticles. Materials Science Forum, 2011, 679-680, 520-523.	0.3	3
234	First principles theoretical study of the hole-assisted conversion of CO to CO ₂ on the anatase TiO ₂ (101) surface. Journal of Chemical Physics, 2011, 134, 104701.	1.2	39

#	ARTICLE	IF	CITATIONS
235	Gate-Controlled Donor Activation in Silicon Nanowires. Nano Letters, 2010, 10, 3791-3795.	4.5	5
236	The absorption spectrum of hydrogenated silicon carbide nanocrystals from ab initio calculations. Applied Physics Letters, 2010, 96, 051909.	1.5	37
237	Silicon-carbon nanocomposites: Theoretical investigations. Journal of Molecular Structure, 2010, 982, 87-90.	1.8	5
238	N-doped ZnO nanowires: Surface segregation, the effect of hydrogen passivation and applications in spintronics. Physica Status Solidi (B): Basic Research, 2010, 247, 2195-2201.	0.7	22
239	Annealing simulations to determine the matrix interface structure of SiC quantum dots embedded in SiO ₂ . Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 407-410.	0.8	2
240	Accurate defect levels obtained from the HSE06 range-separated hybrid functional. Physical Review B, 2010, 81, .	1.1	297
241	Theoretical prediction of topological insulators in thallium-based III-V-VI ₂ ternary chalcogenides. Europhysics Letters, 2010, 90, 37002.	0.7	140
242	DFTB and lanthanides. Journal of Physics: Conference Series, 2010, 242, 012005.	0.3	9
243	Theoretical Exploration of the Structural, Electronic, and Magnetic Properties of ZnO Nanotubes with Vacancies, Antisites, and Nitrogen Substitutional Defects. Journal of Physical Chemistry C, 2010, 114, 5760-5766.	1.5	39
244	Native Defects in ZnO Nanowires: Atomic Relaxations, Relative Stability, and Defect Healing with Organic Acids. Journal of Physical Chemistry C, 2010, 114, 18860-18865.	1.5	18
245	First-principles calculations of atomic and electronic properties of ZnO nanostructures. Physica Status Solidi (B): Basic Research, 2010, 247, 2581-2593.	0.7	7
246	The absorption of oxygenated silicon carbide nanoparticles. Journal of Chemical Physics, 2010, 133, 064705.	1.2	36
247	An Improved Self-Consistent-Charge Density-Functional Tight-Binding (SCC-DFTB) Set of Parameters for Simulation of Bulk and Molecular Systems Involving Titanium. Journal of Chemical Theory and Computation, 2010, 6, 266-278.	2.3	177
248	Oscillatory crossover from two-dimensional to three-dimensional topological insulators. Physical Review B, 2010, 81, .	1.1	459
249	Theoretical prediction of topological insulator in ternary rare earth chalcogenides. Physical Review B, 2010, 82, .	1.1	49
250	Donor levels in Si nanowires determined by hybrid-functional calculations. Physical Review B, 2009, 79, .	1.1	28
251	Structural and electronic properties of Ge-Si, Sn-Si, and Pb-Si dimers on Si(001) from density-functional calculations. Physical Review B, 2009, 79, .	1.1	1
252	Size and composition dependent electronic and optical properties of Ga _x Al _{1-x} As and Al _x Ga _{1-x} As alloyed nanocrystals. Applied Physics Letters, 2009, 94, 123105.	1.5	5

#	ARTICLE	IF	CITATIONS
253	Local Vibrational Excitation through Extended Electronic States at a Germanium Surface. Physical Review Letters, 2009, 103, 266102.	2.9	12
254	Covalent functionalization of ZnO surfaces: A density functional tight binding study. Applied Physics Letters, 2009, 94, 193109.	1.5	50
255	Hydrogen adsorption and etching on the Si-rich 3C-SiC(001)3Å—2surface: First-principles molecular dynamics calculations. Physical Review B, 2009, 79, .	1.1	14
256	Prediction of energetically optimal single-walled carbon nanotubes for hydrogen physisorption. Applied Physics Letters, 2009, 95, 013116.	1.5	23
257	Comment on "Valence Surface Electronic States on Ge(001)", Physical Review Letters, 2009, 103, 189701; author reply 189702.	2.9	18
258	SENSITIVITY OF HYDROGENATED SILICON NANODOT ON SMALL POLAR MOLECULES. Journal of Theoretical and Computational Chemistry, 2009, 08, 299-316.	1.8	6
259	Quantum mechanical and molecular mechanical simulation approaches bridging length and time scales for simulation of interface reactions in realistic environments. European Physical Journal: Special Topics, 2009, 177, 59-81.	1.2	3
260	Hydrogen and oxygen adsorption on ZnO nanowires: A first-principles study. Physical Review B, 2009, 79, .	1.1	51
261	Detailed Simulation and Characterization of Highly Proton Conducting Sulfonic Acid Functionalized Mesoporous Materials under Dry and Humidified Conditions. Journal of Physical Chemistry C, 2009, 113, 19218-19227.	1.5	28
262	Band gap engineering of GaN nanowires by surface functionalization. Applied Physics Letters, 2009, 94, .	1.5	27
263	Rare-earth defect pairs in GaN: $LDA+U$ Physical Review B, 2009, 80, .		
264	Toward an Accurate Density-Functional Tight-Binding Description of Zinc-Containing Compounds. Journal of Chemical Theory and Computation, 2009, 5, 605-614.	2.3	113
265	Atomistic Simulations of Self-Trapped Exciton Formation in Silicon Nanostructures: The Transition from Quantum Dots to Nanowires. Journal of Physical Chemistry C, 2009, 113, 12935-12938.	1.5	25
266	Joule heating in molecular tunnel junctions: application to C60. Journal of Computational Electronics, 2008, 7, 384-389.	1.3	6
267	Theoretical study of rare earth point defects in GaN. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2358-2360.	0.8	23
268	Insight into Proton Conduction of Immobilised Imidazole Systems Via Simulations and Impedance Spectroscopy. Fuel Cells, 2008, 8, 244-253.	1.5	30
269	Modelling of Proton Diffusion in Immobilised Imidazole Systems for Application in Fuel Cells. Fuel Cells, 2008, 8, 236-243.	1.5	15
270	New proton conducting hybrid membranes for HT-PEMFC systems based on polysiloxanes and SO ₃ H-functionalized mesoporous Si-MCM-41 particles. Journal of Membrane Science, 2008, 316, 164-175.	4.1	53

#	ARTICLE	IF	CITATIONS
271	Energetic and electronic properties of hydrogen passivated ZnO nanowires. Solid State Communications, 2008, 148, 101-104.	0.9	10
272	First-principles study of the size-dependent structural and electronic properties of thick-walled ZnO nanotubes. Solid State Communications, 2008, 148, 534-537.	0.9	20
273	Challenges for ab initio defect modeling. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 154-155, 187-192.	1.7	18
274	Electron-phonon scattering in molecular electronics: from inelastic electron tunnelling spectroscopy to heating effects. New Journal of Physics, 2008, 10, 065020.	1.2	24
275	Optimal surface functionalization of silicon quantum dots. Journal of Chemical Physics, 2008, 128, 244714.	1.2	57
276	Anomalous size dependence of the luminescence in reconstructed silicon nanoparticles. Applied Physics Letters, 2008, 93, .	1.5	23
277	Effect of Polarization on the Opsin Shift in Rhodopsins. 1. A Combined QM/QM/MM Model for Bacteriorhodopsin and Pharaonis Sensory Rhodopsin II. Journal of Physical Chemistry B, 2008, 112, 11462-11467.	1.2	62
278	Resonant Electron Heating and Molecular Phonon Cooling in Single-C ₆₀ Junctions. Physical Review Letters, 2008, 100, 136801.	2.9	120
279	First-Principles Study of the Structural Stability and Electronic Properties of ZnS Nanowires. Journal of Physical Chemistry C, 2008, 112, 20291-20294.	1.5	11
280	Effect of Polarization on the Opsin Shift in Rhodopsins. 2. Empirical Polarization Models for Proteins. Journal of Physical Chemistry B, 2008, 112, 11468-11478.	1.2	49
281	Mechanical properties of solid C ₆₀ studied with density functional tight binding method augmented by an empirical dispersion term. Journal of Physics Condensed Matter, 2008, 20, 275240.	0.7	5
282	Validity of the Slater-Janak transition-state model within the LDA+U Physical Review B, 2008, 78, .	1.1	34
283	Amine-capped silicon quantum dots. Applied Physics Letters, 2008, 92, 053107.	1.5	35
284	The mechanism of defect creation and passivation at the SiC/SiO ₂ interface. Journal Physics D: Applied Physics, 2008, 41, 049801-049801.	1.3	9
285	Point Defects and their Aggregation in Silicon Carbide. Materials Science Forum, 2007, 556-557, 439-444.	0.3	3
286	Theoretical study of the chemical gap tuning in silicon nanowires. Physical Review B, 2007, 76, .	1.1	65
287	Unusual size dependence of the optical emission gap in small hydrogenated silicon nanoparticles. Applied Physics Letters, 2007, 90, 123116.	1.5	61
288	Limits of the scaled shift correction to levels of interstitial defects in semiconductors. Physical Review B, 2007, 75, .	1.1	16

#	ARTICLE	IF	CITATIONS
289	Stabilizing excited-state silicon nanoparticle by surface oxidation. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	27
290	Efficient tight-binding approach for the study of strongly correlated systems. <i>Physical Review B</i> , 2007, 76, .	1.1	20
291	A priorimethod for propensity rules for inelastic electron tunneling spectroscopy of single-molecule conduction. <i>Physical Review B</i> , 2007, 75, .	1.1	80
292	The Mechanism of Interface State Passivation by NO. <i>Materials Science Forum</i> , 2007, 556-557, 541-544.	0.3	3
293	Theoretical Studies on Optical and Electronic Properties of Propionic-Acid-Terminated Silicon Quantum Dots. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 1518-1526.	2.3	36
294	First-principles calculations of reconstructed [0001] ZnO nanowires. <i>Physical Review B</i> , 2007, 76, .	1.1	58
295	Treatment of Collinear and Noncollinear Electron Spin within an Approximate Density Functional Based Method. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5622-5629.	1.1	55
296	Parameter Calibration of Transition-Metal Elements for the Spin-Polarized Self-Consistent-Charge Density-Functional Tight-Binding (DFTB) Method: Sc, Ti, Fe, Co, and Ni. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 1349-1367.	2.3	208
297	Relativistic Parametrization of the Self-Consistent-Charge Density-Functional Tight-Binding Method. 1. Atomic Wave Functions and Energies. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5712-5719.	1.1	19
298	Density-functional theory calculations of bare and passivated triangular-shaped ZnO nanowires. <i>Applied Physics Letters</i> , 2007, 91, 031914.	1.5	41
299	The mechanism of defect creation and passivation at the SiC/SiO ₂ interface. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 6242-6253.	1.3	143
300	Signatures in Vibrational Spectra of Ice Nanotubes Revealed by a Density Functional Tight Binding Method. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14131-14138.	1.5	14
301	Density Functional Tight Binding: Contributions from the American Chemical Society Symposium. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5607-5608.	1.1	10
302	Excited State Properties of Allylamine-Capped Silicon Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2394-2400.	1.5	42
303	Hydrogenated Silicon Nanoparticles Relaxed in Excited States. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12588-12593.	1.5	32
304	An Efficient LDA+U Based Tight Binding Approach. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5665-5670.	1.1	15
305	Initial Steps toward Automating the Fitting of DFTB $\epsilon_p(r)$. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5637-5641.	1.1	28
306	Accurate single-particle determination of the band gap in silicon nanowires. <i>Physical Review B</i> , 2007, 76, .	1.1	39

#	ARTICLE	IF	CITATIONS
307	Silicon Nanowire Band Gap Modification. Nano Letters, 2007, 7, 34-38.	4.5	215
308	Self-Interaction and Strong Correlation in DFTB. Journal of Physical Chemistry A, 2007, 111, 5671-5677.	1.1	52
309	Structural and electronic properties of ZnO nanotubes from density functional calculations. Nanotechnology, 2007, 18, 485713.	1.3	72
310	DFTB+, a Sparse Matrix-Based Implementation of the DFTB Method. Journal of Physical Chemistry A, 2007, 111, 5678-5684.	1.1	1,523
311	Geometric and Electronic Structures of Carbon Nanotubes Adsorbed with Flavin Adenine Dinucleotide: A Theoretical Study. Journal of Physical Chemistry C, 2007, 111, 4069-4073.	1.5	74
312	The Green's Function Density Functional Tight-Binding (gDFTB) Method for Molecular Electronic Conduction. Journal of Physical Chemistry A, 2007, 111, 5692-5702.	1.1	32
313	Linear scaling time-dependent density-functional tight-binding method for absorption spectra of large systems. Physical Review B, 2007, 76, .	1.1	22
314	Analytical excited state forces for the time-dependent density-functional tight-binding method. Journal of Computational Chemistry, 2007, 28, 2589-2601.	1.5	43
315	Atomistic Modeling of Gate-All-Around Si-Nanowire Field-Effect Transistors. IEEE Transactions on Electron Devices, 2007, 54, 3159-3167.	1.6	16
316	Ab initio simulation of interface reactions as a foundation of understanding polymorphism. European Physical Journal: Special Topics, 2007, 149, 127-144.	1.2	2
317	Quasiparticle correction for electronic transport in molecular wires. Journal of Computational Electronics, 2007, 6, 345-348.	1.3	6
318	Heat dissipation and non-equilibrium phonon distributions in molecular devices. Journal of Computational Electronics, 2007, 6, 335-339.	1.3	2
319	Magnetic Moment of Iron Clusters with 109, 110, 111, and 147 Atoms. Journal of Computational and Theoretical Nanoscience, 2007, 4, 264-269.	0.4	5
320	Density-functional based tight-binding study of small gold clusters. New Journal of Physics, 2006, 8, 9-9.	1.2	72
321	Structure and shape variations in intermediate-size copper clusters. Journal of Chemical Physics, 2006, 124, 024308.	1.2	100
322	Modeling Fundamental Aspects of the Surface Chemistry of Oxides and their Interactions with Coupling Agents. , 2006, , 17-32.		1
323	Molecular Origins of Conduction Channels Observed in Shot-Noise Measurements. Nano Letters, 2006, 6, 2431-2437.	4.5	42
324	Color Tuning in Rhodopsins: The Mechanism for the Spectral Shift between Bacteriorhodopsin and Sensory Rhodopsin II. Journal of the American Chemical Society, 2006, 128, 10808-10818.	6.6	196

#	ARTICLE	IF	CITATIONS
325	Structural Evolution of Anionic Silicon Clusters SiN(20 \pm 45). Journal of Physical Chemistry A, 2006, 110, 908-912.	1.1	75
326	Computational Studies on Polymer Adhesion at the Surface of β -Al ₂ O ₃ . I. The Adsorption of Adhesive Component Molecules from the Gas Phase. Journal of Physical Chemistry B, 2006, 110, 20460-20468.	1.2	31
327	"Proton Holes" in Long-Range Proton Transfer Reactions in Solution and Enzymes: A Theoretical Analysis. Journal of the American Chemical Society, 2006, 128, 16302-16311.	6.6	125
328	Geometric and Excited-State Properties of 1,4-Bis(benzothiazolylvinyl)benzene Interacting with 2,2',2''-(1,3,5-phenylene)tris[1-phenyl-1H-benzimidazole] Studied by a Density-Functional Tight-Binding Method. Journal of Physical Chemistry B, 2006, 110, 20847-20851.	1.2	6
329	Toward Theoretical Analysis of Long-Range Proton Transfer Kinetics in Biomolecular Pumps. Journal of Physical Chemistry A, 2006, 110, 548-563.	1.1	95
330	Statistical evaluation of the big bang search algorithm. Computational Materials Science, 2006, 35, 232-237.	1.4	13
331	Magnetism and the potential energy hypersurfaces of Fe ₅₃ to Fe ₅₇ . Computational Materials Science, 2006, 35, 297-301.	1.4	15
332	Incoherent tunneling and heat dissipation in molecular bridges. Journal of Physics: Conference Series, 2006, 35, 349-356.	0.3	0
333	A theoretical study of erbium in GaN. Physica B: Condensed Matter, 2006, 376-377, 512-515.	1.3	25
334	Molecular dynamics simulations of CF _x (x=2,3) molecules at Si ₃ N ₄ and SiO ₂ surfaces. Surface Science, 2006, 600, 453-460.	0.8	93
335	Computational photochemistry of retinal proteins. Journal of Computer-Aided Molecular Design, 2006, 20, 511-518.	1.3	50
336	The symmetry of single-molecule conduction. Journal of Chemical Physics, 2006, 125, 184702.	1.2	33
337	Understanding the inelastic electron-tunneling spectra of alkanedithiols on gold. Journal of Chemical Physics, 2006, 124, 094704.	1.2	103
338	Where Would the Electronic States of a Small Graphite-Like Carbon Island Contribute to the SiC/SiO ₂ Interface State Density Distribution?. Materials Science Forum, 2006, 527-529, 1019-1022.	0.3	1
339	Silicon Carbide: A Playground for 1D-Modulation Electronics. Materials Science Forum, 2006, 527-529, 355-358.	0.3	1
340	Co-Doping of Er-Doped SiC with Oxygen " A Promising Way Towards Efficient 1540 nm Emission at Room Temperature?. Materials Science Forum, 2006, 527-529, 655-658.	0.3	1
341	Strain-Free Polarization Superlattice in Silicon Carbide: A Theoretical Investigation. Physical Review Letters, 2006, 96, 236803.	2.9	17
342	Simulations of Inelastic Tunnelling in Molecular Bridges. Springer Proceedings in Physics, 2006, , 183-186.	0.1	2

#	ARTICLE	IF	CITATIONS
343	First-Principles Calculations of $\hat{\Gamma}$ -Alumina (0001) Surfaces Energies with and without Hydrogen. , 2005, , 377-387.		0
344	Superhard Materials. , 2005, , 533-543.		0
345	Calculation of Electronic States in Semiconductor Heterostructures with an Empirical spd [*] Tight-Binding Model. , 2005, , 449-460.		0
346	Structures, Energetics and Electronic Properties of Complex III-V Semiconductor Systems. , 2005, , 473-511.		0
347	Modeling Brittle and Ductile Behavior of Solids from First-Principles Calculations. , 2005, , 545-564.		0
348	Linear Scaling ab initio Calculations in Nanoscale Materials with SIESTA. , 2005, , 335-356.		0
349	A Self-Consistent Charge Density-Functional Based Tight-Binding Scheme for Large Biomolecules. , 2005, , 357-376.		3
350	Concurrent Coupling of Length Scales in Solid State Systems. , 2005, , 251-291.		6
351	Choosing Models for Solids. , 2005, , 9-21.		0
352	Comparison of Simulation Methods for Organic Molecular System: Porphyrin Stacks. , 2005, , 565-575.		0
353	The Art and Science of an Analytic Potential. , 2005, , 23-40.		3
354	LDA Calculations Using a Basis of Gaussian Orbitals. , 2005, , 131-171.		0
355	The Periodic Hartree-Fock Method and Its Implementation in the CRYSTAL Code. , 2005, , 63-88.		0
356	Influence of the growth-surface on the incorporation of phosphorus in SiC. Applied Surface Science, 2005, 243, 345-354.	3.1	2
357	Residual stresses modelled by MD simulation applied to PVD DC sputter deposition. Surface and Coatings Technology, 2005, 200, 1600-1603.	2.2	3
358	Density functional based calculations for Fe _n (n=1/2,32). Chemical Physics, 2005, 309, 23-31.	0.9	146
359	Importance of electronic self-consistency in the TDDFT based treatment of nonadiabatic molecular dynamics. European Physical Journal D, 2005, 35, 467-477.	0.6	50
360	Atomistic Simulation of the Electronic Transport in Organic Nanostructures: Electron-Phonon and Electron-Electron Interactions. Journal of Computational Electronics, 2005, 4, 79-82.	1.3	8

#	ARTICLE	IF	CITATIONS
361	The effect of charge on kink migration at 90° partial dislocations in SiC. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 877-882.	0.8	2
362	Quantum Mechanical Investigations on the Insertion Compounds of Early Transition Metal Oxides. , 2005, , 577-598.		0
363	Electric Fields in Electronic Structure Calculations: Electric Polarizabilities and IR and Raman Spectra from First Principles. , 2005, , 293-310.		1
364	Ab initio Monte Carlo Investigations of Small Lithium Clusters. , 2005, , 311-322.		0
365	Structure and Isomerization in Alkali Halide Clusters. , 2005, , 323-334.		0
366	Ab initio Molecular Dynamics Simulations of Reactions at Surfaces. , 2005, , 389-404.		0
367	Linear-Response Studies of the Electron-Phonon Interaction in Metals. , 2005, , 419-428.		0
368	Modelling Carbon for Industry: Radiolytic Oxidation. , 2005, , 429-447.		0
369	Constant-Pressure Molecular Dynamics of Amorphous Si. , 2005, , 461-471.		0
370	Structure and Dynamics of Point Defects in Crystalline Silicon. , 2005, , 513-532.		0
371	From Band Structures to Linear and Nonlinear Optical Spectra in Semiconductors. , 2005, , 599-640.		0
372	Si Nanoparticles as a Model for Porous Si. , 2005, , 641-663.		0
373	Paramagnetic Defects. , 2005, , 665-684.		0
374	Large-Scale Applications of Real-Space Multigrid Methods to Surfaces, Nanotubes and Quantum Transport. , 2005, , 685-701.		0
375	Semiconductor Nanostructures. , 2005, , 703-722.		0
376	Electronic Structure Methods for Predicting the Properties of Materials: Grids in Space. , 2005, , 173-195.		0
377	Strategies for Massively Parallel Local-Orbital-Based Electronic Structure Methods. , 2005, , 197-218.		0
378	The Accuracy of the Pseudopotential Approximation within Density-Functional Theory. , 2005, , 219-230.		0

#	ARTICLE	IF	CITATIONS
379	Ab Initio Calculation of Shallow Defects: Results for P-Related Donors in SiC. Materials Science Forum, 2005, 483-485, 501-506.	0.3	1
380	Theoretical Investigations of the Diffusion of Nitrogen-Pair Defects in Silicon. Solid State Phenomena, 2005, 108-109, 407-412.	0.3	1
381	The Search for Near Interface Oxide Traps - First-Principles Calculations on Intrinsic SiO ₂ Defects. Materials Science Forum, 2005, 483-485, 569-572.	0.3	7
382	Analysis of band-gap formation in squashed armchair carbon nanotubes. Physical Review B, 2005, 71, .	1.1	43
383	Influence of copper on the electronic properties of amorphous chalcogenides. Physical Review B, 2005, 72, .	1.1	10
384	Diffusion of nitrogen in silicon. Applied Physics Letters, 2005, 87, 021902.	1.5	24
385	Density-functional tight-binding calculations of electronic states associated with grain boundaries in GaN. Physical Review B, 2005, 71, .	1.1	12
386	Quasiparticle energies for large molecules: A tight-binding-based Green's-function approach. Physical Review A, 2005, 71, .	1.0	51
387	Agglomeration of As Antisites in As-Rich Low-Temperature GaAs: Nucleation without a Critical Nucleus Size. Physical Review Letters, 2005, 95, 125502.	2.9	2
388	Diamond nucleation by energetic pure carbon bombardment. Physical Review B, 2005, 72, .	1.1	33
389	Theoretical study of the mechanism of dry oxidation of 4H-SiC. Physical Review B, 2005, 71, .	1.1	133
390	Metal Surfaces: Surface, Step and Kink Formation Energies. , 2005, , 405-418.		0
391	Electronic behavior of rare-earth dopants in AlN: A density-functional study. Physical Review B, 2005, 72, .	1.1	36
392	Electronic structure of boron-interstitial clusters in silicon. Journal of Physics Condensed Matter, 2005, 17, S2141-S2153.	0.7	38
393	An Introduction to the Third-Generation LMTO Method. , 2005, , 89-130.		0
394	Calculating Absorption Shifts for Retinal Proteins: Computational Challenges. Journal of Physical Chemistry B, 2005, 109, 3606-3615.	1.2	237
395	Simulation of Water Cluster Assembly on a Graphite Surface. Journal of Physical Chemistry B, 2005, 109, 14183-14188.	1.2	95
396	Shape, polarizability, and metallicity in silicon clusters. Physical Review A, 2005, 71, .	1.0	62

#	ARTICLE	IF	CITATIONS
397	New Type of Charged Defect in Amorphous Chalcogenides. Physical Review Letters, 2005, 94, 086401.	2.9	22
398	Theoretical Study of the Interaction between Selected Adhesives and Oxide Surfaces. Journal of Physical Chemistry B, 2005, 109, 5060-5066.	1.2	17
399	A Critical Evaluation of Different QM/MM Frontier Treatments with SCC-DFTB as the QM Method. Journal of Physical Chemistry B, 2005, 109, 9082-9095.	1.2	156
400	Defects in SiO ₂ as the possible origin of near interface traps in the SiC/SiO ₂ system: A systematic theoretical study. Physical Review B, 2005, 72, .	1.1	151
401	Structures and energetics of hydrogen-terminated silicon nanowire surfaces. Journal of Chemical Physics, 2005, 123, 144703.	1.2	109
402	Large-Scale Electronic Structure Calculations Using Linear Scaling Methods. , 2005, , 231-249.		0
403	Validation of the density-functional based tight-binding approximation method for the calculation of reaction energies and other data. Journal of Chemical Physics, 2005, 122, 114110.	1.2	140
404	Theoretical investigation of the high-pressure behavior of nitric acid. Physical Review B, 2004, 69, .	1.1	10
405	Simulation of physical properties of the chalcogenide glass As ₂ S ₃ using a density-functional-based tight-binding method. Physical Review B, 2004, 69, .	1.1	30
406	The Nature of the Shallow Boron Acceptor in SiC - Localization versus Effective Mass Theory. Materials Science Forum, 2004, 457-460, 711-714.	0.3	8
407	Density Functional Based Modelling of 30 Å° Partial Dislocations in SiC. Materials Science Forum, 2004, 457-460, 453-456.	0.3	1
408	Ab initio, tight-binding and QM/MM calculations of the rhodopsin chromophore in its binding pocket. Phase Transitions, 2004, 77, 31-45.	0.6	10
409	Effect of self-consistency and electron correlation on the spatial extension of bipolaronic defects. Organic Electronics, 2004, 5, 167-174.	1.4	6
410	Global optimization of silicon nanoclusters. Applied Surface Science, 2004, 226, 108-113.	3.1	5
411	Fast QM/MM method and its application to molecular systems. Chemical Physics Letters, 2004, 397, 451-458.	1.2	18
412	Theoretical study of the adsorption of a PTCDA monolayer on S-passivated GaAs(100). Applied Surface Science, 2004, 234, 173-177.	3.1	34
413	Unraveling the Shape Transformation in Silicon Clusters. Physical Review Letters, 2004, 93, .	2.9	150
414	Excitations, optical absorption spectra, and optical excitonic gaps of heterofullerenes. I. C ₆₀ , C ₅₉ N ⁺ , and C ₄₈ N ₁₂ : Theory and experiment. Journal of Chemical Physics, 2004, 120, 5133-5147.	1.2	46

#	ARTICLE	IF	CITATIONS
415	Incoherent Electron-Phonon Scattering in Octanethiols. Nano Letters, 2004, 4, 2109-2114.	4.5	106
416	Tubular structures of GaS. Physical Review B, 2004, 69, .	1.1	62
417	A global investigation of excited state surfaces within time-dependent density-functional response theory. Journal of Chemical Physics, 2004, 120, 1674-1692.	1.2	151
418	Entropy of point defects calculated within periodic boundary conditions. Physical Review B, 2004, 69, .	1.1	25
419	Dislocation Structures in Diamond: Density-Functional Based Modelling and High-Resolution Electron Microscopy. Defect and Diffusion Forum, 2004, 226-228, 11-30.	0.4	5
420	Modeling zinc in biomolecules with the self consistent charge-density functional tight binding (SCC-DFTB) method: Applications to structural and energetic analysis. Journal of Computational Chemistry, 2003, 24, 565-581.	1.5	150
421	Basal plane partial dislocations in silicon carbide. Physica B: Condensed Matter, 2003, 340-342, 160-164.	1.3	12
422	Strain relaxation in LT-GaAs by the agglomeration of As antisites. Physica B: Condensed Matter, 2003, 340-342, 293-298.	1.3	6
423	Charge corrections for supercell calculations of defects in semiconductors. Physica B: Condensed Matter, 2003, 340-342, 190-194.	1.3	60
424	The different behavior of nitrogen and phosphorus as n-type dopants in SiC. Physica B: Condensed Matter, 2003, 340-342, 184-189.	1.3	19
425	Defects of the SiC/SiO ₂ interface: energetics of the elementary steps of the oxidation reaction. Physica B: Condensed Matter, 2003, 340-342, 1069-1073.	1.3	17
426	Platinum and gold dihydrides in silicon. Physica B: Condensed Matter, 2003, 340-342, 668-672.	1.3	4
427	An approximate DFT method for QM/MM simulations of biological structures and processes. Computational and Theoretical Chemistry, 2003, 632, 29-41.	1.5	172
428	Chalcogen passivation of GaAs(1 0 0) surfaces: theoretical study. Applied Surface Science, 2003, 212-213, 861-865.	3.1	23
429	Shape transition of medium-sized neutral silicon clusters. Physica Status Solidi (B): Basic Research, 2003, 240, 537-548.	0.7	62
430	A theoretical investigation of dislocations in cubic and hexagonal gallium nitride. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1684-1709.	0.8	33
431	Dislocations in diamond: Dissociation into partials and their glide motion. Physical Review B, 2003, 68, .	1.1	57
432	The 60° dislocation in diamond and its dissociation. Journal of Physics Condensed Matter, 2003, 15, S2951-S2960.	0.7	16

#	ARTICLE	IF	CITATIONS
433	Infrared spectroscopic study of the morphology of 3,4,9,10-perylene tetracarboxylic dianhydride films grown on H-passivated Si(111). <i>Journal of Physics Condensed Matter</i> , 2003, 15, S2647-S2663.	0.7	21
434	Vibrational absorption spectra, DFT and SCC-DFTB conformational study and analysis of [Leu]enkephalin. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1295-1300.	1.3	23
435	A Cause for SiC/SiO ₂ Interface States: the Site Selection of Oxygen in SiC. <i>Materials Science Forum</i> , 2003, 433-436, 535-538.	0.3	9
436	Theoretical Study of Antisite Aggregation in $\hat{1}\pm$ -SiC. <i>Materials Science Forum</i> , 2003, 433-436, 491-494.	0.3	3
437	Structure and motion of basal dislocations in silicon carbide. <i>Physical Review B</i> , 2003, 68, .	1.1	92
438	Germanium-hydrogen pairs in silicon. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S2803-S2807.	0.7	7
439	Influence of the electron-phonon interactions on the transport properties at the molecular scale. , 2003, 5219, 109.		0
440	Structure of Stacked Dimers of N-Methylated Watson-Crick Adenine-Thymine Base Pairs. <i>International Journal of Molecular Sciences</i> , 2003, 4, 537-547.	1.8	22
441	Stability of large vacancy clusters in silicon. <i>Physical Review B</i> , 2002, 65, .	1.1	61
442	Influence of dislocations on electron energy-loss spectra in gallium nitride. <i>Physical Review B</i> , 2002, 65, .	1.1	53
443	Electronic structure of overstretched DNA. <i>Physical Review B</i> , 2002, 66, .	1.1	42
444	Understanding precursor-derived amorphous Si-C-N ceramics on the atomic scale. <i>Physical Review B</i> , 2002, 65, .	1.1	29
445	Properties of small carbon clusters inside the C ₆₀ fullerene. <i>Physical Review B</i> , 2002, 65, .	1.1	9
446	SiO ₂ -coated carbon nanotubes: theory and experiment. <i>International Journal of Materials Research</i> , 2002, 93, 455-458.	0.8	6
447	Straight and kinked 90° partial dislocations in diamond and 3C-SiC. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 12741-12747.	0.7	28
448	Planar interstitial aggregates in Si. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 12843-12853.	0.7	18
449	11-cis-Retinal Protonated Schiff Base: Influence of the Protein Environment on the Geometry of the Rhodopsin Chromophore. <i>Biochemistry</i> , 2002, 41, 15259-15266.	1.2	82
450	Dislocations in diamond: Core structures and energies. <i>Physical Review B</i> , 2002, 65, .	1.1	114

#	ARTICLE	IF	CITATIONS
451	Decomposition of HMX at Extreme Conditions: A Molecular Dynamics Simulation. <i>Journal of Physical Chemistry A</i> , 2002, 106, 9024-9029.	1.1	145
452	Atomistic simulations of complex materials: ground-state and excited-state properties. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 3015-3047.	0.7	423
453	Electronic structure of solid nitromethane: Effects of high pressure and molecular vacancies. <i>Journal of Chemical Physics</i> , 2002, 117, 788-799.	1.2	95
454	The Mechanism of Diamond Nucleation from Energetic Species. <i>Science</i> , 2002, 297, 1531-1533.	6.0	202
455	Dislocations in diamond: Electron energy-loss spectroscopy. <i>Physical Review B</i> , 2002, 65, .	1.1	47
456	Atomistic simulation of the bombardment process during the BEN phase of chemical vapor deposition (CVD) of diamond. <i>Diamond and Related Materials</i> , 2002, 11, 513-518.	1.8	4
457	Theoretical tools for transport in molecular nanostructures. <i>Physica B: Condensed Matter</i> , 2002, 314, 86-90.	1.3	75
458	Performance of the AM1, PM3, and SCC-DFTB methods in the study of conjugated Schiff base molecules. <i>Chemical Physics</i> , 2002, 277, 91-103.	0.9	93
459	Calculated and experimental low-loss electron energy loss spectra of dislocations in diamond and GaN. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 12793-12800.	0.7	5
460	Molecular Devices Simulations Based on Density Functional Tight-Binding. <i>Journal of Computational Electronics</i> , 2002, 1, 109-112.	1.3	8
461	Approximate density-functional calculations of spin densities in large molecular systems and complex solids. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 5109-5114.	1.3	82
462	Theoretical investigation of carbon defects and diffusion in α -quartz. <i>Physical Review B</i> , 2001, 64, .	1.1	75
463	Band structure and optical properties of germanium sheet polymers. <i>Physical Review B</i> , 2001, 64, .	1.1	18
464	Atomic-scale characterization of boron diffusion in silicon. <i>Physical Review B</i> , 2001, 64, .	1.1	43
465	A Hydrogen Storage Mechanism in Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2001, 123, 5059-5063.	6.6	227
466	Structural and vibrational properties of carbon impurities in crystalline silicon. <i>Semiconductor Science and Technology</i> , 2001, 16, R41-R49.	1.0	7
467	Tight-binding molecular-dynamics simulation of impurities in ultrananocrystalline diamond grain boundaries. <i>Physical Review B</i> , 2001, 65, .	1.1	267
468	A QM/MM Implementation of the Self-Consistent Charge Density Functional Tight Binding (SCC-DFTB) Method. <i>Journal of Physical Chemistry B</i> , 2001, 105, 569-585.	1.2	568

#	ARTICLE	IF	CITATIONS
469	Hydrogen storage in carbon nanotubes. <i>Synthetic Metals</i> , 2001, 121, 1189-1190.	2.1	34
470	Absorption and luminescence spectra of electroluminescent liquid crystals with triphenylene, pyrene and perylene units. <i>Liquid Crystals</i> , 2001, 28, 1105-1113.	0.9	48
471	Structure and elastic properties of amorphous silicon carbon nitride films. <i>Physical Review B</i> , 2001, 64, .	1.1	54
472	Theoretical study of a body-centered-tetragonal phase of carbon nitride. <i>Physical Review B</i> , 2001, 64, .	1.1	14
473	Theory of Electron Energy Loss Spectroscopy and its Application to Threading Edge Dislocations in GaN. <i>Materials Research Society Symposia Proceedings</i> , 2001, 693, 75.	0.1	0
474	On the sidewall functionalization of carbon nanotubes. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	0
475	Hydrogen insertion and extraction mechanism in single-walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	1
476	Energetics and structure of glycine and alanine based model peptides: Approximate SCC-DFTB, AM1 and PM3 methods in comparison with DFT, HF and MP2 calculations. <i>Chemical Physics</i> , 2001, 263, 203-219.	0.9	132
477	Tubular structures of germanium. <i>Solid State Communications</i> , 2001, 119, 653-657.	0.9	23
478	Modelling electron energy-loss spectra of dislocations in silicon and diamond. <i>Physica B: Condensed Matter</i> , 2001, 308-310, 577-580.	1.3	6
479	Interstitial-based vacancy annealing in 4H-SiC. <i>Physica B: Condensed Matter</i> , 2001, 308-310, 645-648.	1.3	16
480	Do we really need configuration interaction theory to understand the negative vacancy in silicon?. <i>Physica B: Condensed Matter</i> , 2001, 308-310, 497-501.	1.3	1
481	Quantum mechanics simulation of protein dynamics on long timescale. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 44, 484-489.	1.5	140
482	Hydrogen bonding and stacking interactions of nucleic acid base pairs: A density-functional-theory based treatment. <i>Journal of Chemical Physics</i> , 2001, 114, 5149-5155.	1.2	978
483	Application of an approximate density-functional method to sulfur containing compounds. <i>Computational and Theoretical Chemistry</i> , 2001, 541, 185-194.	1.5	165
484	Electrical Activity of Isolated Oxygen Defects in SiC. <i>Materials Science Forum</i> , 2001, 353-356, 463-466.	0.3	2
485	Intrinsic Defect Complexes in $\hat{1}\pm$ -SiC: the Formation of Antisite Pairs. <i>Materials Science Forum</i> , 2001, 353-356, 435-438.	0.3	9
486	Boron Centers in 4H-SiC. <i>Materials Science Forum</i> , 2001, 353-356, 455-458.	0.3	24

#	ARTICLE	IF	CITATIONS
487	Irradiation Experiment Revisited – Stability and Positron Lifetime of Large Vacancy Clusters in Silicon. Materials Science Forum, 2001, 363-365, 135-137.	0.3	4
488	Coherent External and Internal Phonons in Quasi-One-Dimensional Organic Molecular Crystals. Physical Review Letters, 2001, 86, 4060-4063.	2.9	19
489	Tetragonal Crystalline Carbon Nitrides: Theoretical Predictions. Physical Review Letters, 2001, 86, 652-655.	2.9	28
490	Response of C ₆₀ and C _{nt} to ultrashort laser pulses. Physical Review B, 2001, 64, .	1.1	75
491	Dislocation Related Photoluminescence in Silicon. Physical Review Letters, 2001, 87, .	2.9	55
492	Do Arsenic Interstitials Really Exist in As-Rich GaAs?. Physical Review Letters, 2001, 87, 045504.	2.9	33
493	Hybrid SCC-DFTB/molecular mechanical studies of H-bonded systems and of N-acetyl-(L-Ala) _n -methylamide helices in water solution. International Journal of Quantum Chemistry, 2000, 78, 459-479.	1.0	68
494	On the electronic structure of WS ₂ nanotubes. Solid State Communications, 2000, 114, 245-248.	0.9	120
495	Novel NbS ₂ metallic nanotubes. Solid State Communications, 2000, 115, 635-638.	0.9	95
496	DFT studies on helix formation in N-acetyl-(L-alanyl) _n -methylamide for n=1–20. Chemical Physics, 2000, 256, 15-27.	0.9	96
497	Structure and energetics of Si _n N _m clusters: Growth pathways in a heterogenous cluster system. Journal of Chemical Physics, 2000, 112, 1295-1305.	1.2	33
498	Observation of “Stick” and “Handle” Intermediates along the Fullerene Road. Physical Review Letters, 2000, 84, 2421-2424.	2.9	52
499	Molecular wires, solenoids, and capacitors by sidewall functionalization of carbon nanotubes. Applied Physics Letters, 2000, 77, 1313-1315.	1.5	86
500	Adsorption and Desorption of an O ₂ Molecule on Carbon Nanotubes. Physical Review Letters, 2000, 85, 2757-2760.	2.9	149
501	(10-10) and (11-20) Surfaces in 2H-, 4H- and 6H-SiC. Materials Science Forum, 2000, 338-342, 365-368.		6
502	Optical bands related to dislocations in Si. Journal of Physics Condensed Matter, 2000, 12, 10123-10129.	0.7	10
503	Electronic structures of GaN edge dislocations. Physical Review B, 2000, 61, 16033-16039.	1.1	117
504	Hydrogen adsorption and storage in carbon nanotubes. Synthetic Metals, 2000, 113, 209-216.	2.1	196

#	ARTICLE	IF	CITATIONS
505	Vacancy clusters in plastically deformed semiconductors. Journal of Physics Condensed Matter, 2000, 12, 10071-10078.	0.7	14
506	Structure and Electronic Properties of MoS ₂ Nanotubes. Physical Review Letters, 2000, 85, 146-149.	2.9	497
507	Dislocations in hexagonal and cubic GaN. Journal of Physics Condensed Matter, 2000, 12, 10223-10233.	0.7	30
508	Single-Parent Evolution Algorithm and the Optimization of Si Clusters. Physical Review Letters, 2000, 85, 546-549.	2.9	189
509	Tight-binding molecular-dynamics study of a Si:H Preparation, structure, and dynamics. Physical Review B, 1999, 60, 5478-5484.	1.1	22
510	Stoichiometric and non-stoichiometric (101̄,0) and (112̄,0) surfaces in 2H-SiC: a theoretical study. Solid State Communications, 1999, 111, 459-464.	0.9	66
511	Magic number vacancy aggregates in Si and GaAs structure and positron lifetime studies. Physica B: Condensed Matter, 1999, 273-274, 501-504.	1.3	27
512	Mechanism for dicarbon defect formation in AlAs and GaAs. Physica B: Condensed Matter, 1999, 273-274, 784-787.	1.3	6
513	NOON – A non-orthogonal localised orbital order-N method. Computer Physics Communications, 1999, 118, 200-212.	3.0	15
514	Paracyanogen-like structures in high-density amorphous carbon nitride. Carbon, 1999, 37, 545-548.	5.4	13
515	Structural and vibrational properties of C ₆₀ oligomers. Carbon, 1999, 37, 463-470.	5.4	11
516	The formation of nanopipes caused by donor impurities in GaN: A theoretical study for the case of oxygen. Philosophical Magazine Letters, 1999, 79, 147-152.	0.5	4
517	Tight-binding simulation of liquid and amorphous Si at zero pressure. Computational Materials Science, 1999, 13, 252-258.	1.4	10
518	Stability and electronic structure of GaN nanotubes from density-functional calculations. Physical Review B, 1999, 60, 7788-7791.	1.1	231
519	Ball-and-Chain Dimers from a Hot Fullerene Plasma. Journal of Physical Chemistry A, 1999, 103, 5275-5284.	1.1	37
520	Molecular Dynamics Simulation of Impurities in Nanocrystalline Diamond Grain Boundaries. Materials Research Society Symposia Proceedings, 1999, 593, 483.	0.1	1
521	Structural and Electronic Properties of Line Defects in GaN. Materials Research Society Symposia Proceedings, 1999, 595, 1.	0.1	2
522	Cage-forming tendencies in Si _n N _m clusters. Chemical Physics Letters, 1998, 292, 235-242.	1.2	21

#	ARTICLE	IF	CITATIONS
523	p- and n-Type doping in carbon modifications. Journal of Non-Crystalline Solids, 1998, 227-230, 607-611.	1.5	8
524	Vibrational signatures of fullerene oxides. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 2287-2294.	1.7	36
525	Theoretical Studies on Defects in SiC. Materials Science Forum, 1998, 264-268, 279-282.	0.3	17
526	Structural models for the reconstruction of the surface and their relative stabilities. Journal of Physics Condensed Matter, 1998, 10, 4523-4532.	0.7	6
527	Effect of oxygen on the growth of (101̄,0) GaN surfaces: The formation of nanowires. Applied Physics Letters, 1998, 73, 3530-3532.	1.5	66
528	GaN Nanotubes. Materials Research Society Symposia Proceedings, 1998, 537, 1.	0.1	0
529	Theoretical Studies on Defects in SiC. Materials Science Forum, 1997, 258-263, 739-744.	0.3	4
530	Structural and Electrical Properties of Threading Dislocations in GaN. Materials Science Forum, 1997, 258-263, 1203-1210.	0.3	1
531	A density-functional based tight-binding approach to GaAs surface reconstructions. Journal of Physics Condensed Matter, 1997, 9, 7305-7315.	0.7	18
532	Density-functional-based predictions of Raman and IR spectra for small Si clusters. Physical Review B, 1997, 55, 2549-2555.	1.1	71
533	Theoretical investigations of homo- and heteronuclear bridged fullerene oligomers. Applied Physics A: Materials Science and Processing, 1997, 64, 321-326.	1.1	38
534	Dynamic properties and structure formation of boron and carbon nitrides. Diamond and Related Materials, 1996, 5, 1031-1041.	1.8	51
535	The density of states of ta-C, ta-C:H and a-C:H as determined by X-ray excited photoelectron spectroscopy and molecular dynamics calculation. Journal of Non-Crystalline Solids, 1996, 198-200, 641-645.	1.5	1
536	On the graphitization of diamond surfaces: the importance of twins. Diamond and Related Materials, 1996, 5, 102-107.	1.8	16
537	Structure formation in low-energy methyl radical collisions onto diamond (100): an MD study. Diamond and Related Materials, 1996, 5, 169-174.	1.8	5
538	Structure and chemical bonding in amorphous diamond. Diamond and Related Materials, 1996, 5, 175-185.	1.8	19
539	Investigation of the stability of the hexagonal-cubic boron nitride prism interface. Journal of Materials Chemistry, 1996, 6, 899-901.	6.7	18
540	A density-functional based tight-binding approach to III-V semiconductor clusters. Journal of Materials Chemistry, 1996, 6, 1649-1656.	6.7	9

#	ARTICLE	IF	CITATIONS
541	Stability of silicon carbide structures: from clusters to solid surfaces. Journal of Materials Chemistry, 1996, 6, 1657-1663.	6.7	22
542	A theoretical study of boron and nitrogen doping in tetrahedral amorphous carbon. Solid State Communications, 1996, 100, 549-553.	0.9	41
543	Vibrational and electronic signatures of diamond surfaces. Thin Solid Films, 1996, 272, 314-330.	0.8	33
544	Comparison of classical and tight-binding molecular dynamics for silicon growth. Physical Review B, 1996, 53, 16497-16503.	1.1	23
545	A density functional tight-binding approach for modelling Ge and GeH structures. Journal of Physics Condensed Matter, 1996, 8, 6873-6888.	0.7	8
546	Construction of tight-binding-like potentials on the basis of density-functional theory: Application to carbon. Physical Review B, 1995, 51, 12947-12957.	1.1	1,950
547	Molecular-dynamics subplantation studies of carbon beneath the diamond (111) surface. Physical Review B, 1995, 51, 4541-4546.	1.1	27
548	Dimer-row pattern formation in diamond (100) growth. Physical Review B, 1995, 52, 5426-5432.	1.1	29
549	Structure, stability, and vibrational properties of polymerized C ₆₀ . Physical Review B, 1995, 52, 14963-14970.	1.1	139
550	Density-functional-based construction of transferable nonorthogonal tight-binding potentials for Si and SiH. Physical Review B, 1995, 52, 11492-11501.	1.1	133
551	Electronic and vibrational spectroscopy of fullerene-based materials. , 1995, , .		1
552	Stability, chemical bonding, and vibrational properties of amorphous carbon at different mass densities. Physical Review B, 1995, 52, 11837-11844.	1.1	70
553	Atomic-scale structure and electronic properties of highly tetrahedral hydrogenated amorphous carbon. Physical Review B, 1994, 50, 7940-7945.	1.1	34
554	Electronic structure of dense amorphous carbon. Physical Review B, 1994, 49, 11448-11451.	1.1	46
555	Energy partition in C ₆₀ -diamond-(111)-surface collisions: A molecular-dynamics simulation. Physical Review B, 1994, 49, 11409-11414.	1.1	44
556	Structure of amorphous hydrogenated carbon: experiment and computer simulation. Diamond and Related Materials, 1994, 3, 245-253.	1.8	22
557	Stability and reconstruction of diamond (100) and (111) surfaces. Diamond and Related Materials, 1994, 3, 966-974.	1.8	22
558	Structural properties of amorphous hydrogenated carbon. IV. A molecular-dynamics investigation and comparison to experiments. Physical Review B, 1994, 50, 6709-6716.	1.1	59

#	ARTICLE	IF	CITATIONS
559	sp ² bonding versus electronic-defect generation: An examination of band-gap properties in amorphous carbon. <i>Physical Review B</i> , 1994, 50, 1489-1501.	1.1	103
560	Political changes in East Germany with lasting impact on computer simulations of carbon-based materials. <i>Computational Materials Science</i> , 1994, 2, 19-38.	1.4	2
561	Molecular dynamic investigations of amorphous carbon: sp ² bonding vs. electronic defect generation. <i>Diamond and Related Materials</i> , 1994, 3, 462-469.	1.8	16
562	Structure and chemical bonding in high density amorphous carbon. <i>Diamond and Related Materials</i> , 1994, 3, 1056-1065.	1.8	21
563	Stability and structure of amorphous hydrogenated carbons: a molecular dynamic investigation. <i>Solid State Communications</i> , 1993, 85, 997-1000.	0.9	19
564	Stability, reconstruction, and electronic properties of diamond (100) and (111) surfaces. <i>Physical Review B</i> , 1993, 48, 18189-18202.	1.1	118
565	Atomic structure and physical properties of amorphous carbon and its hydrogenated analogs. <i>Physical Review B</i> , 1993, 48, 4823-4834.	1.1	132
566	Observation of R30Å° diamond (111) on vapour-grown polycrystalline films. <i>Surface Science</i> , 1993, 295, 340-346.	0.8	47
567	Molecular dynamic structure investigations of the adsorption and bonding of C _x H _y -hydrocarbon molecules/radicals on a diamond (111) surface. <i>Applied Surface Science</i> , 1992, 60-61, 281-290.	3.1	18
568	Electrical and optical properties of plasma-deposited amorphous hydrocarbon films. <i>Journal of Non-Crystalline Solids</i> , 1991, 137-138, 843-846.	1.5	12
569	Computer assisted simulation and electronic properties of realistic amorphous carbon structures. <i>Synthetic Metals</i> , 1991, 42, 2689-2692.	2.1	1
570	Preparation of amorphous i-C films by ion-assisted methods. <i>Thin Solid Films</i> , 1989, 171, 157-169.	0.8	34
571	Electrical transport and electronic properties of a amorphous carbon thin films. <i>Thin Solid Films</i> , 1989, 182, 63-78.	0.8	28
572	The influence of an electric field on the mobility in semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 1986, 133, 755-767.	0.7	0
573	Electric field-induced disorder-order transition in organic polycrystalline films of quasi-one-dimensional lead-phthalocyanine. <i>Physica Status Solidi A</i> , 1984, 86, 735-747.	1.7	28
574	Line width of magnetic excitations in the cubic Laves-Phase compounds PrNi ₂ , PrAl ₂ . <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1983, 120, 176-179.	0.9	7
575	Coupled quadrupole-phonon excitations: Inelastic Neutron scattering on van vleck paramagnet PrNi ₅ . <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1983, 120, 310-313.	0.9	11
576	Crystal Field in the Laves Phase Compound PrNi ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 1982, 111, 507-512.	0.7	15

#	ARTICLE	IF	CITATIONS
577	Magnetic structure and lattice deformation in UO ₂ . Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 87, 69-72.	0.9	0
578	Magneto-vibrational excitations in PrAl ₂ . Journal of Physics F: Metal Physics, 1981, 11, 905-913.	1.6	9
579	Temperature-induced antiferromagnetic-ferromagnetic phase transition; s-f two-band Hubbard model. Journal of Physics F: Metal Physics, 1980, 10, 637-643.	1.6	0
580	Crystal field effects in PrAl ₂ . Solid State Communications, 1979, 29, 805-809.	0.9	32
581	Electrical Conductivity in the Hubbard Model Using the Functional Integral Technique. Physica Status Solidi (B): Basic Research, 1976, 74, K101.	0.7	4
582	Molecular force field parametrization using multi-objective evolutionary algorithms. , 0, , .		7
583	Electron-phonon scattering in molecular wires. , 0, , .		0
584	Calculation of ²⁹ Si Chemical Shifts Using a Density-Functional Based Tight-Binding Scheme. , 0, , 324-328.		0
585	The Inefficiency of H ₂ -Passivation as a Criterion for the Origin of SiC/SiO ₂ Deep Interface States - a Theoretical Study. Materials Science Forum, 0, 600-603, 723-726.	0.3	0
586	Reversible tuning the optical properties of defective TMDs monolayers. Physica Status Solidi (B): Basic Research, 0, , 2000524.	0.7	2
587	Hybrid SCC-DFTB/molecular mechanical studies of H-bonded systems and of N-acetyl-(L-Ala) _n N- ¹⁵ -methylamide helices in water solution. , 0, , .		1
588	Chemical Functionalization of ultrathin tin layers. Physica Status Solidi (B): Basic Research, 0, , 2100499.	0.7	0
589	Significant Increase of Electron Thermal Conductivity in Dirac Semimetal Beryllonitrene by Doping Beyond Van Hove Singularity. Advanced Functional Materials, 0, , 2111556.	7.8	14