

# Catherine Stampfl

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

256  
papers

11,830  
citations

57  
h-index

100  
g-index

272  
ext. papers

12,920  
ext. citations

4.3  
avg, IF

6.67  
L-index

#	Paper	IF	Citations
256	Vacancy-Induced Thermal Transport and Tensile Mechanical Behavior of Monolayer Honeycomb BeO.. <i>ACS Omega</i> , <b>2022</b> , 7, 4525-4537	3.9	2
255	Temperature and interlayer coupling induced thermal transport across graphene/2D-SiC van der Waals heterostructure.. <i>Scientific Reports</i> , <b>2022</b> , 12, 761	4.9	0
254	Atomic and Molecular Hydrogen Impurities in Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 1721-1728	3.8	0
253	Band-gap engineering, magnetic behavior and Dirac-semimetal character in the MoSi <sub>2</sub> N <sub>4</sub> nanoribbon with armchair and zigzag edges. <i>Journal Physics D: Applied Physics</i> , <b>2022</b> , 55, 035301	3	7
252	Monoelemental two-dimensional iodine nanosheets: a first-principles study of the electronic and optical properties. <i>Journal Physics D: Applied Physics</i> , <b>2022</b> , 55, 135104	3	
251	Deep Neural Skill Assessment and Transfer: Application to Robotic Surgery Training <b>2021</b> ,		1
250	Twist-Dependent Electron Charge Transfer and Transport in Phosphorene-Graphene Heterobilayers. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 25886-25897	3.8	
249	Hydrogen-Anion-Induced Carrier Recombination in MAPbI <sub>3</sub> Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10677-10683	6.4	3
248	Resolving Deactivation Pathways of Co Porphyrin-Based Electrocatalysts for CO <sub>2</sub> Reduction in Aqueous Medium. <i>ACS Catalysis</i> , <b>2021</b> , 11, 3715-3729	13.1	11
247	First-principles investigation of intrinsic point defects in perovskite CsSnBr <sub>3</sub> . <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	5
246	Semiconducting Chalcogenide Alloys Based on the (Ge, Sn, Pb) (S, Se, Te) Formula with Outstanding Properties: A First-Principles Calculation Study. <i>ACS Omega</i> , <b>2021</b> , 6, 9433-9441	3.9	9
245	Effect of electric field and vertical strain on the electro-optical properties of the MoSi <sub>2</sub> N <sub>4</sub> bilayer: A first-principles calculation. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 155103	2.5	23
244	A Dirac-semimetal two-dimensional BeN <sub>4</sub> : Thickness-dependent electronic and optical properties. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 203103	3.4	32
243	Electrode-induced impurities in tin halide perovskite solar cell material CsSnBr <sub>3</sub> from first principles. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	4
242	Modeling and Experimental Study of the Electron Transfer Kinetics for Non-ideal Electrodes Using Variable-Frequency Square Wave Voltammetry. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 10175-10186	7.8	2
241	Thermal transport in monolayer zinc-sulfide: effects of length, temperature and vacancy defects. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	2
240	Transition metal-doped tetra-MoN <sub>2</sub> monolayers as an electrochemical catalyst for CO <sub>2</sub> reduction: A density functional theory study. <i>Catalysis Communications</i> , <b>2021</b> , 149, 106212	3.2	1

239	Confined Ru Nanocatalysts on Surface to Enhance Ammonia Synthesis: An In situ ETEM Study. <i>ChemCatChem</i> , <b>2021</b> , 13, 534-538	5.2	3
238	Attenuation of Redox Switching and Rectification in Azulenequinones/Hydroquinones after B and N Doping: A First-Principles Investigation. <i>Advanced Theory and Simulations</i> , <b>2021</b> , 4, 2000203	3.5	2
237	Morphogenesis of mesoscopic surface patterns formed in polarized two-photon etching of diamond. <i>Carbon</i> , <b>2021</b> , 173, 271-285	10.4	1
236	Two-dimensional Janus semiconductor BiTeCl and BiTeBr monolayers: a first-principles study on their tunable electronic properties an electric field and mechanical strain. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 15216-15223	3.6	17
235	Case Report: Utilizing AI and NLP to Assist with Healthcare and Rehabilitation During the COVID-19 Pandemic. <i>Frontiers in Artificial Intelligence</i> , <b>2021</b> , 4, 613637	3	6
234	Mechanistic studies of oxygen reduction and evolution reactions on Ni <sub>3</sub> S <sub>2</sub> surfaces. <i>Applied Catalysis A: General</i> , <b>2021</b> , 624, 118324	5.1	2
233	Superior tunable photocatalytic properties for water splitting in two dimensional GeC/SiC van der Waals heterobilayers. <i>Scientific Reports</i> , <b>2021</b> , 11, 17739	4.9	1
232	Strong tribo-piezoelectric effect in bilayer indium nitride (InN). <i>Scientific Reports</i> , <b>2021</b> , 11, 18669	4.9	2
231	. <i>IEEE Access</i> , <b>2021</b> , 9, 116254-116264	3.5	1
230	Band-gap control of graphenelike borocarbonitride gBC <sub>6</sub> N bilayers by electrical gating. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	26
229	Robotics, Smart Wearable Technologies, and Autonomous Intelligent Systems for Healthcare During the COVID-19 Pandemic: An Analysis of the State of the Art and Future Vision. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2000071	6	113
228	Role of knock-on in electron beam induced etching of diamond. <i>Carbon</i> , <b>2020</b> , 164, 51-58	10.4	2
227	First-principles investigation of nonmetal doped single-layer BiOBr as a potential photocatalyst with a low recombination rate. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 15354-15364	3.6	45
226	Transition metal-doped Borophene as potential oxygen and hydrogen evolution electrocatalyst: A density functional theory study. <i>Catalysis Communications</i> , <b>2020</b> , 144, 106090	3.2	10
225	Modeling and Emulating a Physiotherapist's Role in Robot-Assisted Rehabilitation. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 1900181	6	9
224	Embedding of atoms into the nanopore sites of the CN and CN porous carbon nitride monolayers with tunable electronic properties. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 6418-6433	3.6	27
223	Dirac half-metallicity of Thin PdCl Nanosheets: Investigation of the Effects of External Fields, Surface Adsorption and Defect Engineering on the Electronic and Magnetic Properties. <i>Scientific Reports</i> , <b>2020</b> , 10, 213	4.9	26
222	Strain, electric-field and functionalization induced widely tunable electronic properties in MoS <sub>2</sub> /BC <sub>2</sub> N and /[Formula: see text] van der Waals heterostructures. <i>Nanotechnology</i> , <b>2020</b> , 31, 295202	3.4	34

221	The Electronic, Optical, and Thermoelectric Properties of Monolayer PbTe and the Tunability of the Electronic Structure by External Fields and Defects. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 2000182	1.3	28
220	A First-Principles Study of C N Nanostructures: Control and Engineering of the Electronic and Magnetic Properties of Nanosheets, Tubes and Ribbons. <i>ChemPhysChem</i> , <b>2020</b> , 21, 164-174	3.2	30
219	High mobility in phosphorene isostructures with low deformation potential. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 2276-2282	3.6	5
218	Control of CN and CN carbon nitride nanosheets electronic and magnetic properties through embedded atoms. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 2249-2261	3.6	32
217	Formulation of Multicomponent Lattice Gas Model Cluster Expansions Parameterized on Ab Initio Data: An Introduction to the Ab Initio Mean-Field Augmented Lattice Gas Modeling Code. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 2923-2938	3.8	4
216	Tunable electronic properties of the dynamically stable layered mineral PtHgSe (Jacutingaite). <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 24471-24479	3.6	14
215	Oxygen Vacancies in the Single Layer of Ti <sub>2</sub> CO <sub>2</sub> MXene: Effects of Gating Voltage, Mechanical Strain, and Atomic Impurities. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 2000343	1.3	14
214	Exceptional in-plane and interfacial thermal transport in graphene/2D-SiC van der Waals heterostructures. <i>Scientific Reports</i> , <b>2020</b> , 10, 22050	4.9	10
213	Composition-structure-function correlation of Ca/Zn/AlO <sub>x</sub> catalysts for the ketonization of acetic acid. <i>Catalysis Today</i> , <b>2020</b> , 351, 58-67	5.3	11
212	NMR Spectroscopic Characterization of Flame-Made Amorphous Silica-Alumina for Cyclohexanol and Glyceraldehyde Conversion. <i>ChemCatChem</i> , <b>2020</b> , 12, 287-293	5.2	5
211	A first-principles study of the effects of atom impurities, defects, strain, electric field and layer thickness on the electronic and magnetic properties of the C <sub>2</sub> N nanosheet. <i>Carbon</i> , <b>2020</b> , 157, 371-384	10.4	81
210	Cooperation of Ni and CaO at Interface for CO <sub>2</sub> Reforming of CH <sub>4</sub> : A Combined Theoretical and Experimental Study. <i>ACS Catalysis</i> , <b>2019</b> , 9, 10060-10069	13.1	35
209	Negative Poisson's ratio in 2D life-boat structured crystals. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 1117-1123	5.1	7
208	Non-dissociative adsorption of glycerol on the (111) surface of Ni and Pt-based metallic systems: Hints on reforming activity from d-band center. <i>Molecular Catalysis</i> , <b>2019</b> , 474, 110412	3.3	2
207	Polymorphic expressions of ultrathin oxidic layers of Mo on Au(111). <i>Nanoscale</i> , <b>2019</b> , 11, 6023-6035	7.7	5
206	First-principles prediction of phonon-mediated superconductivity in XBC (X = Mg, Ca, Sr, Ba). <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 8767-8773	3.6	5
205	Stability and band offsets between GaAs semiconductor and CeO <sub>2</sub> gate dielectric. <i>AIP Advances</i> , <b>2019</b> , 9, 025117	1.5	2
204	Unravelling the effects of layered supports on Ru nanoparticles for enhancing N <sub>2</sub> reduction in photocatalytic ammonia synthesis. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 259, 118026	21.8	22

203	Structural stability and band alignment in the c-plane ZnO/GaN heterostructure. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 095008	1.8	0
202	Electronic transport investigation of redox-switching of azulenequinones/hydroquinones via first-principles studies. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 17859-17867	3.6	2
201	Exploiting the Novel Electronic and Magnetic Structure of C3N via Functionalization and Conformation. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900459	6.4	33
200	Catalytic arene alkylation over H-Beta zeolite: Influence of zeolite shape selectivity and reactant nucleophilicity. <i>Journal of Catalysis</i> , <b>2019</b> , 380, 9-20	7.3	11
199	Boron-Doped g-C6N6 Layer as a Metal-Free Photoelectrocatalyst for N2 Reduction Reaction. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 28739-28743	3.8	17
198	Strongly enhanced acidity and activity of amorphous silica/alumina by formation of pentacoordinated AlV species. <i>Journal of Catalysis</i> , <b>2019</b> , 372, 1-7	7.3	19
197	Metal-bipyridine complexes as electrocatalysts for the reduction of CO: a density functional theory study. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 23742-23748	3.6	5
196	Active sites and mechanism of the direct conversion of methane and carbon dioxide to acetic acid over the zinc-modified H-ZSM-5 zeolite. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 6297-6307	5.5	15
195	Photochemical Etching of Carbonyl Groups from a Carbon Matrix: The (001) Diamond Surface. <i>Physical Review Letters</i> , <b>2019</b> , 122, 016802	7.4	3
194	Strain-Engineered Ultrahigh Mobility in Phosphorene for Terahertz Transistors. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800797	6.4	12
193	Efficient Prediction of Structural and Electronic Properties of Hybrid 2D Materials Using Complementary DFT and Machine Learning Approaches. <i>Advanced Theory and Simulations</i> , <b>2019</b> , 2, 1800128	3.5	34
192	Band alignment of nonpolar (101̄0) ZnO on (112) LaAlO3. <i>Solid State Communications</i> , <b>2019</b> , 287, 23-26	1.6	3
191	Identification of Vicinal Silanols and Promotion of Their Formation on MCM-41 via Ultrasonic Assisted One-Step Room-Temperature Synthesis for Beckmann Rearrangement. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 5550-5557	3.9	12
190	Stability and band offsets of nonpolar (112̄0) ZnO on (001) LaAlO3. <i>Vacuum</i> , <b>2018</b> , 150, 29-34	3.7	10
189	Magnetic properties of stoichiometric and defective CoS. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 2356-2362	3.6	11
188	Stability and band offsets between c-plane ZnO semiconductor and LaAlO3 gate dielectric. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 115302	2.5	2
187	Effect of an Al-adlayer in the c-plane ZnO/AlN heterostructure. <i>Europhysics Letters</i> , <b>2018</b> , 122, 26003	1.6	1
186	The role of vacancies in electric field mediated graphene oxide reduction. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 073103	3.4	1

185	Predicting the Electric Field Effect on the Lateral Interactions Between Adsorbates: O/Fe(100) from First Principles. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 763-775	2.3	9
184	Mechanical properties of zirconia, doped and undoped yttria-stabilized cubic zirconia from first-principles. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 122, 51-71	3.9	25
183	Confinement Impact for the Dynamics of Supported Metal Nanocatalyst. <i>Small</i> , <b>2018</b> , 14, e1801586	11	3
182	Evaluation of van der Waals density functionals for layered materials. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	47
181	Machine learning the band gap properties of kesterite $\text{I2III4V4}$ quaternary compounds for photovoltaics applications. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	21
180	Acidity enhanced [Al]MCM-41 via ultrasonic irradiation for the Beckmann rearrangement of cyclohexanone oxime to $\epsilon$ -caprolactam. <i>Journal of Catalysis</i> , <b>2018</b> , 358, 71-79	7.3	23
179	van der Waals Forces Control the Internal Chemical Structure of Monolayers within the Lamellar Materials $\text{CuInP2S6}$ and $\text{CuBiP2Se6}$ . <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 22675-22687	3.8	11
178	Superconductivity in intercalated buckled two-dimensional materials: KGe. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 24027-24032	3.6	1
177	First-principles design of bifunctional oxygen reduction and evolution catalysts through bimetallic centers in metal-organic frameworks. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 3666-3674	5.5	13
176	Acceptor doping in the proton conductor $\text{SrZrO}$ . <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 11485-11491	3.1	13
175	Near-Perfect Spin Filtering and Negative Differential Resistance in an Fe(II)S Complex. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 2189-2194	6.4	9
174	Uncovering the Thermo-Kinetic Origins of Phase Ordering in Mixed-Valence Antimony Tetroxide by First-Principles Modeling. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 6545-6550	5.1	1
173	Stability and band offsets between Si and $\text{LaAlO3}$ . <i>European Physical Journal B</i> , <b>2017</b> , 90, 1	1.2	2
172	Band offsets in $\text{La2O3/InN}$ heterostructures. <i>Solid State Communications</i> , <b>2017</b> , 265, 19-22	1.6	
171	First-principles investigation of quantum emission from hBN defects. <i>Nanoscale</i> , <b>2017</b> , 9, 13575-13582	7.7	122
170	Hydrogen Adsorption on Nearly Zigzag-Edged Nanoribbons: A Density Functional Theory Study. <i>Scientific Reports</i> , <b>2017</b> , 7, 15727	4.9	23
169	TDDFT Study of the Optical Excitation of Nucleic Acid Bases-C Complexes. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 9058-9063	2.8	1
168	Benzylation of Arenes with Benzyl Chloride over H-Beta Zeolite: Effects from Acidity and Shape-Selectivity. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 15248-15255	3.8	13

167	Detection of adsorbed transition-metal porphyrins by spin-dependent conductance of graphene nanoribbon. <i>RSC Advances</i> , <b>2017</b> , 7, 29112-29121	3.7	5
166	Mechanism for strong magnetoelectric coupling in dilute magnetic ferroelectrics. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	7
165	Multiferroic crossover in perovskite oxides. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	26
164	Large spin-filtering effect in Ti-doped defective zigzag graphene nanoribbon. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 16224-8	3.6	5
163	Enhanced oscillatory rectification and negative differential resistance in pentamantane diamondoid-cumulene systems. <i>Nanoscale</i> , <b>2016</b> , 8, 3461-6	7.7	6
162	Unraveling the origins of conduction band valley degeneracies in Mg <sub>2</sub> Si(1-x)Sn(x) thermoelectrics. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 939-46	3.6	6
161	Endohedral metallofullerenes, M@C <sub>60</sub> (M = Ca, Na, Sr): selective adsorption and sensing of open-shell NO <sub>x</sub> gases. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 21315-21	3.6	5
160	Communication: Electrical rectification of C <sub>59</sub> N: The role of anchoring and doping sites. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 021101	3.9	3
159	Brønsted acid sites based on penta-coordinated aluminum species. <i>Nature Communications</i> , <b>2016</b> , 7, 13820	17.4	73
158	Sensing sulfur-containing gases using titanium and tin decorated zigzag graphene nanoribbons from first-principles. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 6925-32	3.6	46
157	Molecular adsorption and methanol synthesis on the oxidized Cu/ZnO(0001) surface. <i>Surface Science</i> , <b>2015</b> , 641, 97-104	1.8	5
156	High On/Off Conductance Switching Ratio via H-Tautomerization in Quinone. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 4154-8	6.4	12
155	Insights into the Electronic Structure of the Oxygen Species Active in Alkene Epoxidation on Silver. <i>ACS Catalysis</i> , <b>2015</b> , 5, 5846-5850	13.1	59
154	Structural and electronic properties of SrZrO <sub>3</sub> and Sr(Ti,Zr)O <sub>3</sub> alloys. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	18
153	Bistable Magnetism and Potential for Voltage-Induced Spin Crossover in Dilute Magnetic Ferroelectrics. <i>Physical Review Letters</i> , <b>2015</b> , 114, 247601	7.4	15
152	Thermodynamic and spectroscopic properties of oxygen on silver under an oxygen atmosphere. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 9288-312	3.6	70
151	Multiple CO <sub>2</sub> capture in stable metal-doped graphene: a theoretical trend study. <i>RSC Advances</i> , <b>2015</b> , 5, 50975-50982	3.7	33
150	Density-functional prediction of a surface magnetic phase in SrTiO <sub>3</sub> /LaAlO <sub>3</sub> heterostructures induced by Al vacancies. <i>Physical Review Letters</i> , <b>2014</b> , 113, 186401	7.4	25

149	Adsorbate induced vacancy formation on silver surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 9002-14	3.6	16
148	Re-visiting the O/Cu(111) system--when metastable surface oxides could become an issue!. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 26735-40	3.6	14
147	Real Time Determination of the Electronic Structure of Unstable Reaction Intermediates during Au <sub>2</sub> O <sub>3</sub> Reduction. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 80-4	6.4	26
146	Electronic and vibrational properties of yttria-stabilised zirconia from first-principles for 100mol% Y <sub>2</sub> O <sub>3</sub> . <i>Journal of Physics and Chemistry of Solids</i> , <b>2014</b> , 75, 1252-1264	3.9	9
145	CH <sub>x</sub> adsorption (x = 1/4) and thermodynamic stability on the CeO <sub>2</sub> (111) surface: a first-principles investigation. <i>RSC Advances</i> , <b>2014</b> , 4, 12245	3.7	13
144	Investigation of the vibrational properties of cubic yttria-stabilized zirconia: A combined experimental and theoretical study. <i>Journal of Physics and Chemistry of Solids</i> , <b>2014</b> , 75, 351-357	3.9	10
143	Stacking-dependent energetics and electronic structure of ultrathin polymorphic V <sub>2</sub> VI <sub>3</sub> topological insulator nanofilms. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	8
142	Hybrid functional calculations of point defects and hydrogen in SrZrO <sub>3</sub> . <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	34
141	A medium-energy photoemission and ab-initio investigation of cubic yttria-stabilised zirconia. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 143502	2.5	4
140	Mitigation of CO poisoning on functionalized Pt-TiN surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 19450-6	3.6	23
139	Hydrogen adsorption capacity of adatoms on double carbon vacancies of graphene: A trend study from first principles. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	85
138	Early transition metal dopants in cuprous oxide: To spin or not to spin. <i>Current Applied Physics</i> , <b>2013</b> , 13, 1707-1712	2.6	6
137	Relativity and the nobility of gold. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 141, 14-17	4.4	9
136	Microscopic origin of n-type behavior in Si-doped AlN. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	15
135	Graphene based dots and antidots: a comparative study from first principles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 1251-5	1.3	1
134	Vacancies in GaN bulk and nanowires: effect of self-interaction corrections. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 255801	1.8	8
133	Environment-dependent nanomorphology of TiN: the influence of surface vacancies. <i>Nanoscale</i> , <b>2012</b> , 4, 5183-8	7.7	25
132	Playing with dimensions: rational design for heteroepitaxial p-n junctions. <i>Nano Letters</i> , <b>2012</b> , 12, 68-76	11.5	26



131	Structure and stability of transition metal nitride interfaces from first-principles: AlN/VN, AlN/TiN, and VN/TiN. <i>Applied Surface Science</i> , <b>2012</b> , 258, 5638-5645	6.7	32
130	First principles study of 3d transition metal doped . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 3138-3143	2.8	36
129	The role of titanium nitride supports for single-atom platinum-based catalysts in fuel cell technology. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 16552-7	3.6	75
128	Band offsets and polarization effects in wurtzite ZnO/Mg <sub>0.25</sub> Zn <sub>0.75</sub> O superlattices from first principles. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	13
127	A first-principles study of ultrathin nanofilms of MgO-supported TiN. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 2462-7	3.6	18
126	Hardness analysis of cubic metal mononitrides from first principles. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	63
125	Magnetism of Co-doped ZnO epitaxially grown on a ZnO substrate. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	49
124	Built-in electric fields and valence band offsets in InN/GaN(0001) superlattices: First-principles investigations. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 083721	2.5	33
123	Surface Chemistry and Catalysis from Ab InitioBased Multiscale Approaches <b>2011</b> , 561-588		
122	Design of shallow acceptors in ZnO through early transition metals codoped with N acceptors. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	24
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119	Cu/ZnO(0001) under oxidating and reducing conditions: A first-principles survey of surface structures. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	28
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