

# Adalberto Fazzio

## 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.

305  
papers

8,752  
citations

48  
h-index

83  
g-index

313  
ext. papers

9,520  
ext. citations

4  
avg, IF

6.28  
L-index

#	Paper	IF	Citations
305	Daphnia magna and mixture toxicity with nanomaterials [Current status and perspectives in data-driven risk prediction. <i>Nano Today</i> , <b>2022</b> , 43, 101430	17.9	2
304	High-throughput inverse design and Bayesian optimization of functionalities: spin splitting in two-dimensional compounds.. <i>Scientific Data</i> , <b>2022</b> , 9, 195	8.2	
303	At the Verge of Topology: Vacancy-Driven Quantum Spin Hall in Trivial Insulators. <i>Nano Letters</i> , <b>2021</b> , 21, 9398-9402	11.5	0
302	Disassembly of TEMPO-Oxidized Cellulose Fibers: Intersheet and Interchain Interactions in the Isolation of Nanofibers and Unitary Chains. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 3717-3724	3.4	0
301	Discovery of higher-order topological insulators using the spin Hall conductivity as a topology signature. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	2
300	Unveiling the dopant segregation effect at hematite interfaces. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 2016024	3.4	4
299	Conformational analysis of tannic acid: Environment effects in electronic and reactivity properties. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 224102	3.9	0
298	Recent Advances in Immunosafety and Nanoinformatics of Two-Dimensional Materials Applied to Nano-imaging. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 689519	8.4	1
297	Room-Temperature Negative Differential Resistance in Surface-Supported Metal-Organic Framework Vertical Heterojunctions. <i>Small</i> , <b>2021</b> , 17, e2101475	11	3
296	Distilling small volumes of crude oil. <i>Fuel</i> , <b>2021</b> , 285, 119072	7.1	2
295	Disorder effects of vacancies on the electronic transport properties of realistic topological insulator nanoribbons: The case of bismuthene. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	4
294	Bandgap evolution in nanographene assemblies. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 11501-11506	3.6	1
293	Structural and electronic properties of realistic two-dimensional amorphous topological insulators. <i>2D Materials</i> , <b>2021</b> , 8, 025032	5.9	6
292	Pair Distribution Function Obtained from Electron Diffraction: An Advanced Real-Space Structural Characterization Tool. <i>Matter</i> , <b>2021</b> , 4, 441-460	12.7	7
291	Machine learning for materials discovery: Two-dimensional topological insulators. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 031409	17.3	7
290	Emergent quasiparticles in Euclidean tilings. <i>Nanoscale</i> , <b>2021</b> , 13, 5270-5274	7.7	2
289	Converging Multidimensional Sensor and Machine Learning Toward High-Throughput and Biorecognition Element-Free Multidetermination of Extracellular Vesicle Biomarkers. <i>ACS Sensors</i> , <b>2020</b> , 5, 1864-1871	9.2	10

288	Pair Distribution Function from Electron Diffraction in Cryogenic Electron Microscopy: Revealing Glassy Water Structure. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1564-1569	6.4	9
287	Jacutingaite-family: A class of topological materials. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
286	Exploring Two-Dimensional Materials Thermodynamic Stability via Machine Learning. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 20149-20157	9.5	43
285	Simulations and Materials Chemistry in the Age of Big Data. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 452-459	6.1	18
284	Ambipolar Resistive Switching in an Ultrathin Surface-Supported Metal-Organic Framework Vertical Heterojunction. <i>Nano Letters</i> , <b>2020</b> , 20, 1080-1088	11.5	29
283	Ordinary microfluidic electrodes combined with bulk nanoprobe produce multidimensional electric double-layer capacitances towards metal ion recognition. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 305, 127482	8.5	7
282	The Rashba Scale: Emergence of Band Anti-crossing as a Design Principle for Materials with Large Rashba Coefficient. <i>Matter</i> , <b>2020</b> , 3, 145-165	12.7	9
281	Dual topological insulator device with disorder robustness. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	6
280	Inverse design of compounds that have simultaneously ferroelectric and Rashba cofunctionality. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	6
279	Simulations of X-ray absorption spectroscopy and energetic conformation of N-heterocyclic carbenes on Au(111). <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 21504-21511	3.6	0
278	The 2021 quantum materials roadmap. <i>JPhys Materials</i> , <b>2020</b> , 3, 042006	4.2	48
277	Zeeman-type spin splitting in nonmagnetic three-dimensional compounds. <i>Npj Quantum Materials</i> , <b>2019</b> , 4,	5	13
276	Metal Chalcogenides Janus Monolayers for Efficient Hydrogen Generation by Photocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 890-897	5.6	40
275	Spin-Polarization Control Driven by a Rashba-Type Effect Breaking the Mirror Symmetry in Two-Dimensional Dual Topological Insulators. <i>Physical Review Letters</i> , <b>2019</b> , 122, 036401	7.4	15
274	Theoretical and Experimental Investigation of 2D Hematite. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 16359-16365	3.8	9
273	Electronic transport properties of MoS nanoribbons embedded in butadiene solvent. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 11359-11366	3.6	5
272	Decreasing Nanocrystal Structural Disorder by Ligand Exchange: An Experimental and Theoretical Analysis. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1471-1476	6.4	9
271	From DFT to machine learning: recent approaches to materials science review. <i>JPhys Materials</i> , <b>2019</b> , 2, 032001	4.2	206

270	Toward Realistic Amorphous Topological Insulators. <i>Nano Letters</i> , <b>2019</b> , 19, 8941-8946	11.5	19
269	The role played by the molecular geometry on the electronic transport through nanometric organic films. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 24584-24591	3.6	2
268	Structural evolution and the role of native defects in subnanometer MoS nanowires. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	4
267	Oxidation of Ni <sub>13</sub> clusters. <i>International Journal of Quantum Chemistry</i> , <b>2019</b> , 119, e25874	2.1	4
266	Semiclassical transport properties of IrGa: a promising thermoelectric material. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 085701	1.8	4
265	Nanoporous ZnO: Structural and electronic study under biaxial strain. <i>Computational Materials Science</i> , <b>2018</b> , 149, 91-97	3.2	
264	Tight-binding model for the band dispersion in rhombohedral topological insulators over the whole Brillouin zone. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	6
263	Layer-dependent band alignment of few layers of blue phosphorus and their van der Waals heterostructures with graphene. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	34
262	Silicene-Based FET for Logical Technology. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 1258-1261	4.4	7
261	Controlling Topological States in Topological/Normal Insulator Heterostructures. <i>ACS Omega</i> , <b>2018</b> , 3, 15900-15906	3.9	5
260	Band gap tuning of layered III-Te materials. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 045104	2.5	3
259	Oxidation of free-standing and supported borophene. <i>2D Materials</i> , <b>2017</b> , 4, 025025	5.9	26
258	Stacking-dependent transport properties in few-layers graphene. <i>Solid State Communications</i> , <b>2017</b> , 250, 70-74	1.6	8
257	Adsorption of 3d, 4d, and 5d transition metal atoms on $\sqrt{3}\sqrt{3}$ -R borophene. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 305302	1.8	9
256	Tuning the p-type Schottky barrier in 2D metal/semiconductor interface: boron-sheet on MoSe <sub>2</sub> and WSe <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 405002	1.8	3
255	Nanodots of transition metal dichalcogenides embedded in MoS <sub>2</sub> and MoSe <sub>2</sub> : first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 26240-26247	3.6	
254	Dynamic covalent bond from first principles: Diarylbibenzofuranone structural, electronic, and oxidation studies. <i>Journal of Computational Chemistry</i> , <b>2017</b> , 38, 2675-2679	3.5	3
253	Novel III-Te/graphene van der Waals heterojunctions for optoelectronic devices. <i>RSC Advances</i> , <b>2017</b> , 7, 32383-32390	3.7	6

252	Two-dimensional van der Waals p-n junction of InSe/phosphorene. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	47
251	Directional dependence of the electronic and transport properties of 2D borophene and borophane. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 25491-25496	3.6	77
250	Fully and partially iodinated germanane as a platform for the observation of the quantum spin Hall effect. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	13
249	Unconventional spin texture in a noncentrosymmetric quantum spin Hall insulator. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	11
248	Substrate-supported large-band-gap quantum spin Hall insulator based on III-V bismuth layers. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	1
247	A new class of large band gap quantum spin hall insulators: 2D fluorinated group-IV binary compounds. <i>Scientific Reports</i> , <b>2016</b> , 6, 26123	4.9	13
246	On the nature of the solvated electron in ice Ih. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 4652-8	3.6	6
245	Topological states of nanoscale Bi <sub>2</sub> Se <sub>3</sub> interfaced with AlN. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 131601	3.4	4
244	Vertical twinning of the Dirac cone at the interface between topological insulators and semiconductors. <i>Nature Communications</i> , <b>2015</b> , 6, 7630	17.4	22
243	Tuning the thermoelectric properties of a single-molecule junction by mechanical stretching. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 5386-92	3.6	11
242	Topological phase transitions of (Bi <sub>x</sub> Sb <sub>1-x</sub> ) <sub>2</sub> Se <sub>3</sub> alloys by density functional theory. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 255501	1.8	9
241	Valley Hall effect in silicene and hydrogenated silicene ruled by grain boundaries: An ab initio investigation. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	8
240	Van der Waals heterostructure of phosphorene and graphene: tuning the Schottky barrier and doping by electrostatic gating. <i>Physical Review Letters</i> , <b>2015</b> , 114, 066803	7.4	372
239	Switching a normal insulator into a topological insulator via electric field with application to phosphorene. <i>Nano Letters</i> , <b>2015</b> , 15, 1222-8	11.5	343
238	Size- effect induced high thermoelectric figure of merit in PbSe and PbTe nanowires. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 8114-8	3.6	11
237	Directional Control of the Electronic and Transport Properties of Graphynes. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 18793-18798	3.8	16
236	Quantum spin Hall effect on germanene nanorod embedded in completely hydrogenated germanene. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	46
235	First-principles study of HgTe/CdTe heterostructures under perturbations preserving time-reversal symmetry. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	9

234	Spin caloritronics in graphene with Mn. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 072412	3.4	15
233	Topological phases in triangular lattices of Ru adsorbed on graphene: Ab initio calculations. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	23
232	Graphene on amorphous HfO <sub>2</sub> surface: An ab initio investigation. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	11
231	Graphene nanoribbon intercalated with hexagonal boron nitride: Electronic transport properties from ab initio calculations. <i>Solid State Communications</i> , <b>2013</b> , 173, 24-29	1.6	10
230	Topological insulator Bi <sub>2</sub> Se <sub>3</sub> (111) surface doped with transition metals: An ab initio investigation. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	46
229	Electronic transport in patterned graphene nanoroads. <i>Nanotechnology</i> , <b>2013</b> , 24, 495201	3.4	8
228	Quantum spin Hall effect in a disordered hexagonal Si <sub>1-x</sub> Ge <sub>x</sub> alloy. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	21
227	Topological states ruled by stacking faults in Bi <sub>2</sub> Se <sub>3</sub> and Bi <sub>2</sub> Te <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 023705	2.5	19
226	Confinement effects and why carbon nanotube bundles can work as gas sensors. <i>Nanoscale</i> , <b>2013</b> , 5, 2798-803	7.7	22
225	First-principles study of group III impurity doped PbSe: Bulk and nanowire. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	6
224	Carrier-mediated magnetism in transition metal doped Bi <sub>2</sub> Se <sub>3</sub> topological insulator. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 445003	1.8	5
223	Interfaces between buckling phases in silicene: Ab initio density functional theory calculations. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	10
222	Considerações sobre o Programa Brasileiro de Nanotecnologia. <i>Ciência E Cultura</i> , <b>2013</b> , 65, 23-27	0.3	1
221	Tuning Low-Spin to High-Spin Mn Pairs in 2-D ZnO by Injecting Holes. <i>IEEE Nanotechnology Magazine</i> , <b>2012</b> , 11, 71-76	2.6	0
220	Bilayer graphene on h-BN substrate: investigating the breakdown voltage and tuning the bandgap by electric field. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 075301	1.8	15
219	Light emission and current rectification in a molecular device: Experiment and theory. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 113108	2.5	
218	Ab-initio calculations for a realistic sensor: A study of CO sensors based on nitrogen-rich carbon nanotubes. <i>AIP Advances</i> , <b>2012</b> , 2, 032115	1.5	4
217	Piezomagnetic behavior of Co-doped ZnO nanoribbons. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	5

216	Doping of graphene adsorbed on the a-SiO <sub>2</sub> surface. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 163108	3.4	43
215	Mn dimers on graphene nanoribbons: An ab initio study. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 053715	2.5	14
214	Quantum confinement and spin-orbit interactions in PbSe and PbTe nanowires: First-principles calculation. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	9
213	Bilayer graphene dual-gate nanodevice: An ab initio simulation. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	29
212	Spin filtering and disorder-induced magnetoresistance in carbon nanotubes: Ab initio calculations. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	13
211	Spin texture and magnetic anisotropy of Co impurities in Bi <sub>2</sub> Se <sub>3</sub> topological insulators. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	45
210	Electronic transport properties of ascorbic acid and nicotinamide adsorbed on single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2011</b> , 506, 233-238	2.5	10
209	IxV curves of boron and nitrogen doping zigzag graphene nanoribbons. <i>International Journal of Quantum Chemistry</i> , <b>2011</b> , 111, 1379-1386	2.1	16
208	Adatoms in graphene as a source of current polarization: Role of the local magnetic moment. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	25
207	Ab initio calculations of structural evolution and conductance of benzene-1,4-dithiol on gold leads. <i>ACS Nano</i> , <b>2011</b> , 5, 795-804	16.7	83
206	Energetics and stability of vacancies in carbon nanotubes. <i>Solid State Communications</i> , <b>2011</b> , 151, 482-486	37	
205	Mn-doped cubic BN as an atomiclike memory device: A density functional study. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	2
204	Splitting of the zero-energy edge states in bilayer graphene. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	12
203	Disorder-based graphene spintronics. <i>Nanotechnology</i> , <b>2010</b> , 21, 345202	3.4	27
202	Origin of FM ordering in pristine micro- and nanostructured ZnO. <i>Nano Letters</i> , <b>2010</b> , 10, 1383-6	11.5	92
201	Ferromagnetic coupling in a Co-doped graphenelike ZnO sheet. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	54
200	Mimicking nanoribbon behavior using a graphene layer on SiC. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	8
199	Surface and Quantum Confinement Effects in ZnO Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 18293-18297	3.8	45

198	Formation of atomic carbon chains from graphene nanoribbons. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	50
197	Realistic calculations of carbon-based disordered systems. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 374002	3	18
196	Organic molecule assembled between carbon nanotubes: A highly efficient switch device. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	34
195	Point defects in covalent semiconductors: A molecular cluster model. <i>International Journal of Quantum Chemistry</i> , <b>2009</b> , 16, 349-361	2.1	1
194	The variational cellular method for quantum mechanical applications: Calculations of the ground and excited states of F <sub>2</sub> and Ne <sub>2</sub> molecules. <i>International Journal of Quantum Chemistry</i> , <b>2009</b> , 20, 401-408	2.1	1
193	MS-XETreatment for native defects in GaSb. <i>International Journal of Quantum Chemistry</i> , <b>2009</b> , 20, 457-457		
192	Native defects and transition metal impurities at interstitial sites in gaas. <i>International Journal of Quantum Chemistry</i> , <b>2009</b> , 36, 677-685	2.1	
191	Metal-semiconductor transition in cerium hydrides. <i>International Journal of Quantum Chemistry</i> , <b>2009</b> , 36, 709-716	2.1	
190	Surface magnetization in non-doped ZnO nanostructures. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 162503	3-4	67
189	Electronic, structural, and transport properties of Ni-doped graphene nanoribbons. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	130
188	Effects of side-chain and electron exchange correlation on the band structure of perylene diimide liquid crystals: a density functional study. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 5376-80	3-4	10
187	Edge effects in bilayer graphene nanoribbons: Ab initio total-energy density functional theory calculations. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	54
186	Barrier-free substitutional doping of graphene sheets with boron atoms: Ab initio calculations. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	57
185	Theoretical investigation of Hf and Zr defects in c-Ge. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 012206	1.8	
184	Quantum confinement effects on Mn-doped InAs nanocrystals: A first-principles study. <i>Physical Review B</i> , <b>2008</b> , 78,	3-3	17
183	Hydrogen adsorption on boron doped graphene: an ab initio study. <i>Nanotechnology</i> , <b>2008</b> , 19, 155708	3-4	80
182	First-principles study of the adsorption of atomic and molecular hydrogen on BC <sub>2</sub> N nanotubes. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	29
181	sigma- and pi-defects at graphene nanoribbon edges: building spin filters. <i>Nano Letters</i> , <b>2008</b> , 8, 2293-8	11.5	94



180	Confinement and surface effects in B and P doping of silicon nanowires. <i>Nano Letters</i> , <b>2008</b> , 8, 1866-71	11.5	53
179	Electronic and Magnetic Properties of Ti and Fe on Graphene. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 9163-9167	3.8	83
178	Ab Initio Study of SO <sub>2</sub> Molecules Interacting with Pristine and Transition Metal Covered Fullerenes as a Possible Route for Nanofilters. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 6677-6680	3.8	4
177	Symmetry controlled spin polarized conductance in au nanowires. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 9897-903	16.4	20
176	Designing real nanotube-based gas sensors. <i>Physical Review Letters</i> , <b>2008</b> , 100, 176803	7.4	95
175	Amorphous HfO <sub>2</sub> and Hf <sub>1-x</sub> Si <sub>x</sub> O via a melt-and-quench scheme using ab initio molecular dynamics. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	39
174	Transport properties of single vacancies in nanotubes. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	32
173	Temperature and quantum effects in the stability of pure and doped gold nanowires. <i>Physical Review Letters</i> , <b>2008</b> , 100, 056104	7.4	29
172	Divacancies in graphene and carbon nanotubes. <i>Nano Letters</i> , <b>2007</b> , 7, 2459-62	11.5	151
171	Si nanowires as sensors: choosing the right surface. <i>Nano Letters</i> , <b>2007</b> , 7, 1172-7	11.5	37
170	Electronic and transport properties of boron-doped graphene nanoribbons. <i>Physical Review Letters</i> , <b>2007</b> , 98, 196803	7.4	502
169	Adsorption of CO and NO molecules on carbon doped boron nitride nanotubes. <i>Solid State Communications</i> , <b>2007</b> , 142, 49-53	1.6	96
168	First principles study of titanium-coated carbon nanotubes as sensors for carbon monoxide molecules. <i>Surface Science</i> , <b>2007</b> , 601, 4102-4104	1.8	22
167	Ab initio study of 2,3,7,8-tetrachlorinated dibenzo-p-dioxin adsorption on single wall carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2007</b> , 437, 79-82	2.5	34
166	Ab initio study of pristine and Si-doped capped carbon nanotubes interacting with nimesulide molecules. <i>Chemical Physics Letters</i> , <b>2007</b> , 439, 348-353	2.5	34
165	Simple implementation of complex functionals: scaled self-consistency. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 144107	3.9	7
164	Theoretical investigations of Ge nanowires grown along the [110] and [111] directions. <i>Nanotechnology</i> , <b>2007</b> , 18, 295706	3.4	28
163	Theoretical investigation of a Mn-doped SiTe heterostructure. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	9

162	Hf defects in cBi and their importance for the HfO <sub>2</sub> /Bi interface: Density-functional calculations. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	4
161	EL2-like defects in InP nanowires: An ab initio total energy investigation. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	6
160	Structural, electronic, and magnetic properties of Mn-doped Ge nanowires by ab initio calculations. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	16
159	Short linear atomic chains in copper nanowires. <i>Nanotechnology</i> , <b>2007</b> , 18, 145701	3-4	30
158	Gold nanowires and the effect of impurities. <i>Nanoscale Research Letters</i> , <b>2006</b> , 1, 91-98	5	16
157	Titanium monomers and wires adsorbed on carbon nanotubes: a first principles study. <i>Nanotechnology</i> , <b>2006</b> , 17, 1154-9	3-4	22
156	Oriental defects in ice Ih: an interpretation of electrical conductivity measurements. <i>Physical Review Letters</i> , <b>2006</b> , 96, 075501	7-4	34
155	Structure and energetics of molecular point defects in ice Ih. <i>Physical Review Letters</i> , <b>2006</b> , 97, 155501	7-4	21
154	Electronic and magnetic properties of Mn-doped InP nanowires from first principles. <i>Physical Review B</i> , <b>2006</b> , 73,	3-3	27
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