

# Stefano Sanvito

## 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.

371  
papers

19,551  
citations

66  
h-index

131  
g-index

395  
ext. papers

21,868  
ext. citations

6.1  
avg. IF

7.28  
L-index

#	Paper	IF	Citations
371	DFT-NEGF simulation study of Co <sub>2</sub> FeAl-MgO-Co <sub>2</sub> FeAl magnetic tunnel junctions under biaxial strain. <i>IEEE Transactions on Magnetics</i> , <b>2022</b> , 1-1	2	
370	High-Performance Spin Filters Based on 1,2,4,5-Tetrahydroxybenzene Molecules Attached to Bulk Nickel Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 6945-6953	3.8	4
369	Data-driven enhancement of cubic phase stability in mixed-cation perovskites. <i>Machine Learning: Science and Technology</i> , <b>2021</b> , 2, 025030	5.1	3
368	The rise of Nb-, Ta-, and Bi-based oxides/chalcogenides for photocatalytic applications. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 47, 3358-3358	6.7	1
367	Using Weakly Supervised Deep Learning to Classify and Segment Single-Molecule Break-Junction Conductance Traces. <i>ChemPhysChem</i> , <b>2021</b> , 22, 2107-2114	3.2	0
366	Prediction of room-temperature ferromagnetism and large perpendicular magnetic anisotropy in a planar hypercoordinate FeB monolayer. <i>Nanoscale Horizons</i> , <b>2021</b> , 6, 43-48	10.8	19
365	First-principles prediction of polar half-metallicity and out-of-plane piezoelectricity in two-dimensional quintuple layered cobalt selenide. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 12046-12050	7.1	2
364	High-throughput bandstructure simulations of van der Waals hetero-bilayers formed by 1T and 2H monolayers. <i>Npj 2D Materials and Applications</i> , <b>2021</b> , 5,	8.8	4
363	Prediction of the two-dimensional Janus ferrovalley material LaBrI. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	5
362	In Situ Tuning of the Charge-Carrier Polarity in Imidazole-Linked Single-Molecule Junctions. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 7596-7604	6.4	0
361	Purely one-dimensional ferroelectricity and antiferroelectricity from van der Waals niobium oxide trihalides. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	2
360	The nanoscale structure of the Pt-water double layer under bias revealed. <i>Electrochimica Acta</i> , <b>2021</b> , 391, 138875	6.7	8
359	Atomistic simulations of surface reactions in ultra-high-temperature ceramics: O <sub>2</sub> , H <sub>2</sub> O and CO adsorption and dissociation on ZrB <sub>2</sub> (0001) surfaces. <i>Applied Surface Science</i> , <b>2021</b> , 566, 150622	6.7	1
358	Effect of a ferromagnetic STM cobalt tip on a single Co-phthalocyanine molecule adsorbed on a ferromagnetic substrate. <i>Physics Open</i> , <b>2021</b> , 9, 100088	1.6	
357	Interfacing 2D VS <sub>2</sub> with Janus MoSSe: Antiferromagnetic electric polarization and charge transfer driven Half-metallicity. <i>Applied Surface Science</i> , <b>2021</b> , 570, 151129	6.7	1
356	Computational prediction of a two-dimensional semiconductor SnO <sub>2</sub> with negative Poisson's ratio and tunable magnetism by doping. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	4
355	Multiple spin-phonon relaxation pathways in a Kramer single-ion magnet. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 174113	3.9	17

354	Neutral excitation density-functional theory: an efficient and variational first-principles method for simulating neutral excitations in molecules. <i>Scientific Reports</i> , <b>2020</b> , 10, 8947	4.9	9
353	The 2020 magnetism roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 453001	3	77
352	Edge superconductivity in multilayer WTe Josephson junction. <i>National Science Review</i> , <b>2020</b> , 7, 1468-1475.8	10	
351	Machine Learning Accelerated Recovery of the Cubic Structure in Mixed-Cation Perovskite Thin Films. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2998-3006	9.6	24
350	Importance of structural deformation features in the prediction of hybrid perovskite bandgaps. <i>Computational Materials Science</i> , <b>2020</b> , 184, 109858	3.2	9
349	Surfing Multiple Conformation-Property Landscapes via Machine Learning: Designing Single-Ion Magnetic Anisotropy. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 5802-5806	3.8	11
348	Pushing the limits of atomistic simulations towards ultra-high temperature: A machine-learning force field for ZrB2. <i>Acta Materialia</i> , <b>2020</b> , 186, 467-474	8.4	7
347	First-Principles Study of Electromigration in the Metallic Liquid State of GeTe and Sb2Te3 Phase-Change Compounds. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 9599-9603	3.8	6
346	Electric-controlled half-metallicity in magnetic van der Waals heterobilayer. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 7034-7040	7.1	16
345	Unveiling phonons in a molecular qubit with four-dimensional inelastic neutron scattering and density functional theory. <i>Nature Communications</i> , <b>2020</b> , 11, 1751	17.4	23
344	Electric field modulation of magnetism in ferrimagnetic Heusler heterostructures. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	11
343	Ferroelectric control of electron half-metallicity in A-type antiferromagnets and its application to nonvolatile memory devices. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
342	Theoretical investigation of the structural, elastic, electronic, and dielectric properties of alkali-metal-based bismuth ternary chalcogenides. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	4
341	The AFLOW Fleet for Materials Discovery <b>2020</b> , 1785-1812		1
340	Time-Dependent Density Functional Theory for Spin Dynamics <b>2020</b> , 841-866		2
339	Machine Learning and High-Throughput Approaches to Magnetism <b>2020</b> , 351-373		1
338	First-principles study of a Mn-doped In2Se3 monolayer: Coexistence of ferromagnetism and ferroelectricity with robust half-metallicity and enhanced polarization. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	10
337	The Limit of Spin Lifetime in Solid-State Electronic Spins. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 6273-6278	6.4	15

336	Improving stability of organometallic-halide perovskite solar cells using exfoliation two-dimensional molybdenum chalcogenides. <i>Npj 2D Materials and Applications</i> , <b>2020</b> , 4,	8.8	17
335	Photovoltage from ferroelectric domain walls in BiFeO <sub>3</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
334	How do phonons relax molecular spins?. <i>Science Advances</i> , <b>2019</b> , 5, eaax7163	14.3	34
333	Exploring new approaches towards the formability of mixed-ion perovskites by DFT and machine learning. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 1078-1088	3.6	29
332	Dirac-cone induced gating enhancement in single-molecule field-effect transistors. <i>Nanoscale</i> , <b>2019</b> , 11, 13117-13125	7.7	8
331	A unified picture of the covalent bond within quantum-accurate force fields: From organic molecules to metallic complexes' reactivity. <i>Science Advances</i> , <b>2019</b> , 5, eaaw2210	14.3	14
330	Electronic spin-spin decoherence contribution in molecular qubits by quantum unitary spin dynamics. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 487, 165325	2.8	7
329	Shaping and Storing Magnetic Data Using Pulsed Plasmonic Nanoheating and Spin-Transfer Torque. <i>ACS Photonics</i> , <b>2019</b> , 6, 1524-1532	6.3	4
328	The AFLOW Fleet for Materials Discovery <b>2019</b> , 1-28		
327	Ultrahigh conductivity in Weyl semimetal NbAs nanobelts. <i>Nature Materials</i> , <b>2019</b> , 18, 482-488	27	40
326	Silver Tarnishing Mechanism Revealed by Molecular Dynamics Simulations. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6017-6021	16.4	11
325	Impurity band magnetism in organic semiconductors. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	4
324	Silver Tarnishing Mechanism Revealed by Molecular Dynamics Simulations. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6078-6082	3.6	4
323	Synthesis of centimeter-size free-standing perovskite nanosheets from single-crystal lead bromide for optoelectronic devices. <i>Scientific Reports</i> , <b>2019</b> , 9, 11738	4.9	7
322	Self-Assembly of Atomically Thin Chiral Copper Heterostructures Templated by Black Phosphorus. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903120	15.6	7
321	First-Principles Investigation of Spin-Phonon Coupling in Vanadium-Based Molecular Spin Quantum Bits. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 10260-10268	5.1	31
320	Learn-and-Match Molecular Cations for Perovskites. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 7323-7334	4.8	22
319	Interface engineering of graphene nanosheet reinforced ZrB <sub>2</sub> composites by tuning surface contacts. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	2

318	Predicting the Curie temperature of ferromagnets using machine learning. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	26
317	Interlayer dielectric function of a type-II van der Waals semiconductor: The HfS <sub>2</sub> /PtS <sub>2</sub> heterobilayer. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	4
316	Molecular Spintronics <b>2019</b> , 359-382		
315	Enhancing the electronic dimensionality of hybrid organic/inorganic frameworks by hydrogen bonded molecular cations. <i>Materials Horizons</i> , <b>2019</b> , 6, 1187-1196	14.4	3
314	Machine learning density functional theory for the Hubbard model. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	21
313	Role of longitudinal fluctuations in L10 FePt. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	2
312	Quantum Hall effect based on Weyl orbits in CdAs. <i>Nature</i> , <b>2019</b> , 565, 331-336	50.4	116
311	Nontrivial spatial dependence of the spin torques in L10 FePt-based tunneling junctions. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	1
310	First-Principles Prediction of a Room-Temperature Ferromagnetic Janus VSSe Monolayer with Piezoelectricity, Ferroelasticity, and Large Valley Polarization. <i>Nano Letters</i> , <b>2019</b> , 19, 1366-1370	11.5	155
309	Materials informatics. <i>Journal of Intelligent Manufacturing</i> , <b>2019</b> , 30, 2307-2326	6.7	50
308	Proposal for a Dual Spin Filter Based on [VO(C3S4O)2]2. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 6417-6421	3.8	5
307	Searching for Photoactive Polymorphs of CsNbQ3 (Q = O, S, Se, Te) with Enhanced Optical Properties and Intrinsic Thermodynamic Stabilities. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8814-8821	3.8	8
306	First-principles investigation of the thermodynamic stability of MB2 materials surfaces (M = Ti/Zr/Hf). <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 4118-4127	3.8	7
305	A simple descriptor for energetics at fcc-bcc metal interfaces. <i>Materials and Design</i> , <b>2018</b> , 142, 158-165	8.1	9
304	Cr doping induced negative transverse magnetoresistance in Cd3As2 thin films. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	7
303	Electron-Phonon Coupling and Polaron Mobility in Hybrid Perovskites from First Principles. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 1361-1366	3.8	18
302	Ab initio surface properties of Ag-Sn alloys: implications for lead-free soldering. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 4277-4286	3.6	4
301	Spin injection and magnetoresistance in MoS-based tunnel junctions using FeSi Heusler alloy electrodes. <i>Scientific Reports</i> , <b>2018</b> , 8, 4779	4.9	11

300	Computational investigation of label free detection of biomolecules based on armchair graphene nanoribbon. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 1276-1284	8.5	7
299	Search for alternative magnetic tunnel junctions based on all-Heusler stacks. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	8
298	Inducing Strong Superconductivity in WTe by a Proximity Effect. <i>ACS Nano</i> , <b>2018</b> , 12, 7185-7196	16.7	26
297	Elucidating the Impact of Chalcogen Content on the Photovoltaic Properties of Oxychalcogenide Perovskites: NaMO Q (M=Nb, Ta; Q=S, Se, Te). <i>ChemPhysChem</i> , <b>2018</b> , 19, 703-714	3.2	12
296	The AFLOW Fleet for Materials Discovery <b>2018</b> , 1-28		9
295	Electron trapping by neutral pristine ferroelectric domain walls in BiFeO <sub>3</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	6
294	Time-Dependent Density Functional Theory for Spin Dynamics <b>2018</b> , 1-26		1
293	Spin-phonon coupling parameters from maximally localized Wannier functions and first-principles electronic structure: Single-crystal durene. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	4
292	Machine Learning and High-Throughput Approaches to Magnetism <b>2018</b> , 1-23		2
291	AFLOW-CHULL: Cloud-Oriented Platform for Autonomous Phase Stability Analysis. <i>Journal of Chemical Information and Modeling</i> , <b>2018</b> , 58, 2477-2490	6.1	43
290	Wannier-function-based constrained DFT with nonorthogonality-correcting Pulay forces in application to the reorganization effects in graphene-adsorbed pentacene. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	4
289	Effect of molecular conformations on the electronic transport in oxygen-substituted alkanethiol molecular junctions. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 184703	3.9	3
288	Solar Cell Materials by Design: Hybrid Pyroxene Corner-Sharing VO Tetrahedral Chains. <i>ChemSusChem</i> , <b>2017</b> , 10, 1931-1942	8.3	8
287	Spin-orbit Hamiltonian for organic crystals from first-principles electronic structure and Wannier functions. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	6
286	Accelerated discovery of new magnets in the Heusler alloy family. <i>Science Advances</i> , <b>2017</b> , 3, e1602241	14.3	141
285	Theoretical Evaluation of [V(ECS)] as Nuclear-Spin-Sensitive Single-Molecule Spin Transistor. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 3056-3060	6.4	9
284	Spin-Polarized Tunneling through Chemical Vapor Deposited Multilayer Molybdenum Disulfide. <i>ACS Nano</i> , <b>2017</b> , 11, 6389-6395	16.7	40
283	First-principles spin-transfer torque in CuMnAs GaP CuMnAs junctions. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	20

282	Evolution of Weyl orbit and quantum Hall effect in Dirac semimetal CdAs. <i>Nature Communications</i> , <b>2017</b> , 8, 1272	17.4	77
281	Strain-induced Weyl and Dirac states and direct-indirect gap transitions in group-V materials. <i>2D Materials</i> , <b>2017</b> , 4, 045018	5.9	16
280	Ultrafast demagnetizing fields from first principles. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	10
279	Evidence for pressure-induced node-pair annihilation in Cd <sub>3</sub> As <sub>2</sub> . <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	7
278	Femtosecond Spin Current Pulses Generated by the Nonthermal Spin-Dependent Seebeck Effect and Interacting with Ferromagnets in Spin Valves. <i>Physical Review Letters</i> , <b>2017</b> , 119, 017202	7.4	58
277	An in situ and ex situ TEM study into the oxidation of titanium (IV) sulphide. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	15
276	Intra-molecular origin of the spin-phonon coupling in slow-relaxing molecular magnets. <i>Chemical Science</i> , <b>2017</b> , 8, 6051-6059	9.4	112
275	The low-bias conducting mechanism of single-molecule junctions constructed with methylsulfide linker groups and gold electrodes. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 054702	3.9	8
274	Ab initio dynamical exchange interactions in frustrated antiferromagnets. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	6
273	Multiscale modeling of current-induced switching in magnetic tunnel junctions using ab initio spin-transfer torques. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	16
272	Tailoring the Polarity of Charge Carriers in GrapheneBorphineGraphene Molecular Junctions through Linkage Motifs. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 27344-27350	3.8	10
271	First-Principles Prediction of Spin-Polarized Multiple Dirac Rings in Manganese Fluoride. <i>Physical Review Letters</i> , <b>2017</b> , 119, 016403	7.4	64
270	Resistive switching mechanism of GeTe-SbTe interfacial phase change memory and topological properties of embedded two-dimensional states. <i>Nanoscale</i> , <b>2017</b> , 9, 9386-9395	7.7	32
269	HfO <sub>2</sub> and SiO <sub>2</sub> as barriers in magnetic tunneling junctions. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	2
268	Influence of the dipolar interactions on the relative stability in spin crossover systems. <i>Journal of Computational Chemistry</i> , <b>2017</b> , 38, 224-227	3.5	2
267	The role of anharmonic phonons in under-barrier spin relaxation of single molecule magnets. <i>Nature Communications</i> , <b>2017</b> , 8, 14620	17.4	215
266	Observation of quasi-two-dimensional Dirac fermions in ZrTe <sub>5</sub> . <i>NPG Asia Materials</i> , <b>2016</b> , 8, e325-e325	10.3	41
265	Persistent current and Drude weight of one-dimensional interacting fermions on imperfect ring from current lattice density functional theory. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 445601	1.8	1

264	Current-induced phonon renormalization in molecular junctions. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	8
263	Vertical Single-Crystalline Organic Nanowires on Graphene: Solution-Phase Epitaxy and Optical Microcavities. <i>Nano Letters</i> , <b>2016</b> , 16, 4754-62	11.5	20
262	Designing a fully compensated half-metallic ferrimagnet. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	26
261	Fundamental gap of molecular crystals via constrained density functional theory. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	13
260	Exploring the cation dynamics in lead-bromide hybrid perovskites. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	35
259	Charge transfer energies of benzene physisorbed on a graphene sheet from constrained density functional theory. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	10
258	Origin of the periodic structure in the conductance curve of gold nanojunctions in hydrogen environment. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	1
257	Effects of molecular dipole orientation on the exciton binding energy of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	6
256	Zeeman splitting and dynamical mass generation in Dirac semimetal ZrTe <sub>5</sub> . <i>Nature Communications</i> , <b>2016</b> , 7, 12516	17.4	108
255	Dimensionality-driven phonon softening and incipient charge density wave instability in TiS <sub>2</sub> . <i>Europhysics Letters</i> , <b>2016</b> , 115, 47001	1.6	31
254	Charge and spin transport in single and packed ruthenium-terpyridine molecular devices: Insight from first-principles calculations. <i>Scientific Reports</i> , <b>2016</b> , 6, 31856	4.9	4
253	Tunneling magnetoresistance in Si nanowires. <i>New Journal of Physics</i> , <b>2016</b> , 18, 113024	2.9	0
252	Dynamic spin filtering at the Co/Alq <sub>3</sub> interface mediated by weakly coupled second layer molecules. <i>Nature Communications</i> , <b>2016</b> , 7, 12668	17.4	39
251	Predicting Single-Layer Technetium Dichalcogenides (TcX <sub>2</sub> = S, Se) with Promising Applications in Photovoltaics and Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5385-92	9.5	78
250	The oxidation of gallium (II) sulphide <b>2016</b> , 528-529		
249	Quantitative Interpretation of the Low-Bias Conductance of Au-Mesitylene-Au Molecular Junctions Formed from Mesitylene Monolayers. <i>ChemPhysChem</i> , <b>2016</b> , 17, 2272-7	3.2	3
248	Effects of the molecule-electrode interface on the low-bias conductance of Cu-H <sub>2</sub> -Cu single-molecule junctions. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 044701	3.9	4
247	Cu-metalated carbyne acting as a promising molecular wire. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 244702	3.9	3



246	Raman characterization of platinum diselenide thin films. <i>2D Materials</i> , <b>2016</b> , 3, 021004	5.9	138
245	Current-induced changes of migration energy barriers in graphene and carbon nanotubes. <i>Nanoscale</i> , <b>2016</b> , 8, 10310-5	7.7	2
244	Substantial Band-Gap Tuning and a Strain-Controlled Semiconductor to Gapless/Band-Inverted Semimetal Transition in Rutile Lead/Stannic Dioxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 25667-25673	9.5	16
243	Spin Transfer Torque: A Multiscale Picture <b>2016</b> , 91-132		4
242	Diffusion Monte Carlo Perspective on the Spin-State Energetics of [Fe(NCH) <sub>6</sub> ](2.). <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 4233-41	6.4	22
241	Role of spin-orbit interaction in the ultrafast demagnetization of small iron clusters. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	14
240	Charge carrier mobility in hybrid halide perovskites. <i>Scientific Reports</i> , <b>2015</b> , 5, 12746	4.9	219
239	Electronic Transport as a Driver for Self-Interaction-Corrected Methods. <i>Advances in Atomic, Molecular and Optical Physics</i> , <b>2015</b> , 64, 29-86	1.7	6
238	Spin-Valve Effect in NiFe/MoS <sub>2</sub> /NiFe Junctions. <i>Nano Letters</i> , <b>2015</b> , 15, 5261-7	11.5	102
237	First-principles investigation on the electronic efficiency and binding energy of the contacts formed by graphene and poly-aromatic hydrocarbon anchoring groups. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 164701	3.9	6
236	Single atom anisotropic magnetoresistance on a topological insulator surface. <i>New Journal of Physics</i> , <b>2015</b> , 17, 033021	2.9	6
235	Vibron-assisted spin relaxation at a metal/organic interface. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	4
234	Replacement and Original Magnet Engineering Options (ROMEOS): A European Seventh Framework Project to Develop Advanced Permanent Magnets Without, or with Reduced Use of, Critical Raw Materials. <i>Jom</i> , <b>2015</b> , 67, 1306-1317	2.1	28
233	Revealing the role of organic cations in hybrid halide perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Nature Communications</i> , <b>2015</b> , 6, 7026	17.4	489
232	Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. <i>ACS Nano</i> , <b>2015</b> , 9, 6018-30	16.7	232
231	Single-atom based coherent quantum interference device structure. <i>Nano Letters</i> , <b>2015</b> , 15, 2881-6	11.5	7
230	Mechanism of H <sub>2</sub> O-Induced Conductance Changes in AuCl <sub>4</sub> -Functionalized CNTs. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 9568-9573	3.8	5
229	The image charge effect and vibron-assisted processes in Coulomb blockade transport: a first principles approach. <i>Nanoscale</i> , <b>2015</b> , 7, 19231-40	7.7	7

228	Controlling the Spin Texture of Topological Insulators by Rational Design of Organic Molecules. <i>Nano Letters</i> , <b>2015</b> , 15, 6022-9	11.5	30
227	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. <i>Nature Communications</i> , <b>2015</b> , 6, 8563	17.4	764
226	A First Principle Study of the Massive TMR in Magnetic Tunnel Junction Using Fe3Al Heusler Alloy Electrodes and MgO Barrier. <i>Advanced Materials Research</i> , <b>2015</b> , 1101, 192-197	0.5	1
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