

# Miguel A L Marques

## List of Publications by Citations

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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.

181 papers	10,765 citations	49 h-index	100 g-index
199 ext. papers	12,582 ext. citations	5 avg, IF	6.65 L-index

#	Paper	IF	Citations
181	Time-dependent density functional theory. <i>Annual Review of Physical Chemistry</i> , <b>2004</b> , 55, 427-55	15.7	932
180	octopus: a tool for the application of time-dependent density functional theory. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 2465-2488	1.3	659
179	Recent advances and applications of machine learning in solid-state materials science. <i>Npj Computational Materials</i> , <b>2019</b> , 5,	10.9	631
178	octopus: a first-principles tool for excited electron dynamics. <i>Computer Physics Communications</i> , <b>2003</b> , 151, 60-78	4.2	569
177	Propagators for the time-dependent Kohn-Sham equations. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 3425-3433	3.9	403
176	Libxc: A library of exchange and correlation functionals for density functional theory. <i>Computer Physics Communications</i> , <b>2012</b> , 183, 2272-2281	4.2	323
175	Density-based mixing parameter for hybrid functionals. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	290
174	Real-space grids and the Octopus code as tools for the development of new simulation approaches for electronic systems. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 31371-96	3.6	276
173	Crystal structure of cold compressed graphite. <i>Physical Review Letters</i> , <b>2012</b> , 108, 065501	7.4	265
172	Ab initio theory of superconductivity. I. Density functional formalism and approximate functionals. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	237
171	Ab initio theory of superconductivity. II. Application to elemental metals. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	199
170	Benchmarking the Starting Points of the GW Approximation for Molecules. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 324-9	6.4	182
169	Recent developments in libxc: A comprehensive library of functionals for density functional theory. <i>SoftwareX</i> , <b>2018</b> , 7, 1-5	2.7	180
168	Time-dependent density-functional approach for biological chromophores: the case of the green fluorescent protein. <i>Physical Review Letters</i> , <b>2003</b> , 90, 258101	7.4	166
167	Stability and electronic properties of new inorganic perovskites from high-throughput ab initio calculations. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 3157-3167	7.1	156
166	Predicting the Thermodynamic Stability of Solids Combining Density Functional Theory and Machine Learning. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5090-5103	9.6	144
165	The Abinitproject: Impact, environment and recent developments. <i>Computer Physics Communications</i> , <b>2020</b> , 248, 107042	4.2	143

164	Superconductivity in lithium, potassium, and aluminum under extreme pressure: a first-principles study. <i>Physical Review Letters</i> , <b>2006</b> , 96, 047003	7.4	138
163	Time-dependent density-functional theory in massively parallel computer architectures: the OCTOPUS project. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 233202	1.8	135
162	Direct Observation of the Mechanical Properties of Single-Walled Carbon Nanotubes and Their Junctions at the Atomic Level. <i>Nano Letters</i> , <b>2003</b> , 3, 751-755	11.5	135
161	Superconducting properties of MgB2 from first principles. <i>Physical Review Letters</i> , <b>2005</b> , 94, 037004	7.4	122
160	Accuracy of generalized gradient approximation functionals for density-functional perturbation theory calculations. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	119
159	Low-energy silicon allotropes with strong absorption in the visible for photovoltaic applications. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	116
158	Excited states dynamics in time-dependent density functional theory. <i>European Physical Journal D</i> , <b>2004</b> , 28, 211-218	1.3	114
157	A TDDFT study of the excited states of DNA bases and their assemblies. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 7129-38	3.4	104
156	Band structures of Cu2ZnSnS4 and Cu2ZnSnSe4 from many-body methods. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 241915	3.4	103
155	Time-dependent electron localization function. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	101
154	Time-dependent density functional theory scheme for efficient calculations of dynamic (hyper)polarizabilities. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 184106	3.9	94
153	Large-Scale Benchmark of Exchange-Correlation Functionals for the Determination of Electronic Band Gaps of Solids. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 5069-5079	6.4	92
152	Probing time-dependent molecular dipoles on the attosecond time scale. <i>Physical Review Letters</i> , <b>2013</b> , 111, 033001	7.4	89
151	Benchmark Many-Body GW and Bethe-Salpeter Calculations for Small Transition Metal Molecules. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 3934-43	6.4	87
150	On the Breaking of Carbon Nanotubes under Tension. <i>Nano Letters</i> , <b>2004</b> , 4, 811-815	11.5	87
149	Octopus, a computational framework for exploring light-driven phenomena and quantum dynamics in extended and finite systems. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 124119	3.9	86
148	Effects of electronic and lattice polarization on the band structure of delafossite transparent conductive oxides. <i>Physical Review Letters</i> , <b>2010</b> , 104, 136401	7.4	83
147	High-pressure structures of disilane and their superconducting properties. <i>Physical Review Letters</i> , <b>2012</b> , 108, 117004	7.4	80

146	Density-matrix-power functional: Performance for finite systems and the homogeneous electron gas. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	80
145	Prediction of Stable Nitride Perovskites. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5957-5963	9.6	75
144	Ab initio angle- and energy-resolved photoelectron spectroscopy with time-dependent density-functional theory. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	74
143	Empirical functionals for reduced-density-matrix-functional theory. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	71
142	Optical absorption of the blue fluorescent protein: a first-principles study. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 12329-37	16.4	66
141	Magnetic response and NMR spectra of carbon nanotubes from ab initio calculations. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	66
140	Benchmark calculations for reduced density-matrix functional theory. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 184103	3.9	65
139	Exchange-correlation functionals for band gaps of solids: benchmark, reparametrization and machine learning. <i>Npj Computational Materials</i> , <b>2020</b> , 6,	10.9	63
138	Low-density silicon allotropes for photovoltaic applications. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	58
137	Band structures of delafossite transparent conductive oxides from a self-consistent GW approach. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	57
136	Density functional theory beyond the linear regime: Validating an adiabatic local density approximation. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	54
135	Strong renormalization of the electronic band gap due to lattice polarization in the GW formalism. <i>Physical Review Letters</i> , <b>2013</b> , 110, 226404	7.4	51
134	Can optical spectroscopy directly elucidate the ground state of C20?. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 1930-1933	3.9	51
133	Time-Dependent Density Functional Theory. <i>Lecture Notes in Physics</i> , <b>2003</b> , 144-184	0.8	50
132	Identification of Novel Cu, Ag, and Au Ternary Oxides from Global Structural Prediction. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4562-4573	9.6	47
131	Fragment molecular orbital investigation of the role of AMP protonation in firefly luciferase pH-sensitivity. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 14285-93	3.6	46
130	Identification of fullerene-like CdSe nanoparticles from optical spectroscopy calculations. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	45
129	The planar-to-tubular structural transition in boron clusters from optical absorption. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 014310	3.9	45

128	Propagators for the Time-Dependent Kohn-Sham Equations: Multistep, Runge-Kutta, Exponential Runge-Kutta, and Commutator Free Magnus Methods. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 3040-3052	6.4	44
127	Optical and magnetic properties of boron fullerenes. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 4523-4536	3.7	43
126	Novel structural motifs in low energy phases of LiAlH <sub>4</sub> . <i>Physical Review Letters</i> , <b>2012</b> , 108, 205505	7.4	42
125	An Application of Non-Extensive Statistical Mechanics to Nanosystems. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2004</b> , 1, 227-229	0.3	40
124	Conducting boron sheets formed by the reconstruction of the Boron (111) surface. <i>Physical Review Letters</i> , <b>2013</b> , 111, 136101	7.4	39
123	Towards a gauge invariant method for molecular chiroptical properties in TDDFT. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 4481-9	3.6	38
122	Insights into colour-tuning of chlorophyll optical response in green plants. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 26599-606	3.6	37
121	Superconducting properties of MgB <sub>2</sub> from first principles. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 456, 45-53	1.3	37
120	Ab initio prediction of pressure-induced superconductivity in potassium. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	37
119	High-throughput search of ternary chalcogenides for p-type transparent electrodes. <i>Scientific Reports</i> , <b>2017</b> , 7, 43179	4.9	36
118	Density-functional tight-binding study of the collapse of carbon nanotubes under hydrostatic pressure. <i>Carbon</i> , <b>2014</b> , 69, 355-360	10.4	36
117	Sodium-gold binaries: novel structures for ionic compounds from an ab initio structural search. <i>New Journal of Physics</i> , <b>2013</b> , 15, 115007	2.9	36
116	Generalized Pauli constraints in reduced density matrix functional theory. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 154108	3.9	35
115	Accurate color tuning of firefly chromophore by modulation of local polarization electrostatic fields. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 329-32	3.4	35
114	Machine Learning the Physical Nonlocal Exchange-Correlation Functional of Density-Functional Theory. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 6425-6431	6.4	34
113	Speeding up the solution of the Bethe-Salpeter equation by a double-grid method and Wannier interpolation. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	34
112	Stable hybrid organic-inorganic halide perovskites for photovoltaics from ab initio high-throughput calculations. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6463-6475	13	33
111	Low-energy polymeric phases of alanates. <i>Physical Review Letters</i> , <b>2013</b> , 110, 135502	7.4	33

110	The role of dimensionality on the quenching of spin-orbit effects in the optics of gold nanostructures. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 144110	3.9	33
109	The optimal one dimensional periodic table: a modified Pettifor chemical scale from data mining. <i>New Journal of Physics</i> , <b>2016</b> , 18, 093011	2.9	30
108	Carbon structures and defect planes in diamond at high pressure. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	30
107	From mesoscale to nanoscale mechanics in single-wall carbon nanotubes. <i>Carbon</i> , <b>2017</b> , 123, 145-150	10.4	30
106	Bioheterojunction Effect on Fluorescence Origin and Efficiency Improvement of Firefly Chromophores. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 2781-2787	6.4	29
105	Towards a formal definition of static and dynamic electronic correlations. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 12655-12664	3.6	28
104	Mechanism of surface passivation of methylammonium lead tribromide single crystals by benzylamine. <i>Applied Physics Reviews</i> , <b>2019</b> , 6, 031401	17.3	28
103	Density gradients for the exchange energy of electrons in two dimensions. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	28
102	Efficient calculation of van der Waals dispersion coefficients with time-dependent density functional theory in real time: application to polycyclic aromatic hydrocarbons. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 014107	3.9	28
101	Raman activity of sp <sup>3</sup> carbon allotropes under pressure: A density functional theory study. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	25
100	Materials Design On-the-Fly. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 3955-60	6.4	24
99	Local correlation functional for electrons in two dimensions. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	24
98	Pressure-induced radial collapse in few-wall carbon nanotubes: A combined theoretical and experimental study. <i>Carbon</i> , <b>2017</b> , 125, 429-436	10.4	23
97	Excitonic effects in the optical properties of CdSe nanowires. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 123106	3.4	23
96	Cluster-surface and cluster-cluster interactions: Ab initio calculations and modeling of asymptotic van der Waals forces. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	23
95	A Tutorial on Density Functional Theory. <i>Lecture Notes in Physics</i> , <b>2003</b> , 218-256	0.8	23
94	Radial collapse of carbon nanotubes for conductivity optimized polymer composites. <i>Carbon</i> , <b>2016</b> , 106, 64-73	10.4	23
93	Semilocal exchange-correlation potentials for solid-state calculations: Current status and future directions. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 110902	2.5	21

92	The ground state of two-dimensional silicon. <i>2D Materials</i> , <b>2018</b> , 5, 035010	5.9	21
91	Computational acceleration of prospective dopant discovery in cuprous iodide. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 18839-18849	3.6	21
90	Emergence of superconductivity in doped HO ice at high pressure. <i>Scientific Reports</i> , <b>2017</b> , 7, 6825	4.9	19
89	The challenge of predicting optical properties of biomolecules: What can we learn from time-dependent density-functional theory?. <i>Comptes Rendus Physique</i> , <b>2009</b> , 10, 469-490	1.4	19
88	Kirzhnits gradient expansion in two dimensions. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	19
87	Optimized Exchange and Correlation Semilocal Functional for the Calculation of Energies of Formation. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 3844-50	6.4	18
86	Full color modulation of firefly luciferase through engineering with unified Stark effect. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 13725-30	3.4	18
85	p doping in expanded phases of ZnO: an ab initio study. <i>Physical Review Letters</i> , <b>2012</b> , 108, 115903	7.4	18
84	Superconductivity in layered binary silicides: A density functional theory study. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	18
83	Predicting the stability of ternary intermetallics with density functional theory and machine learning. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 241728	3.9	18
82	Novel crystal structures for lithium-silicon alloy predicted by minima hopping method. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 655, 147-154	5.7	17
81	Advanced Raman spectroscopy of Cs <sub>2</sub> AgBiBr <sub>6</sub> double perovskites and identification of Cs <sub>3</sub> Bi <sub>2</sub> Br <sub>9</sub> secondary phases. <i>Scripta Materialia</i> , <b>2020</b> , 184, 24-29	5.6	17
80	Structural prediction of two-dimensional materials under strain. <i>2D Materials</i> , <b>2017</b> , 4, 045009	5.9	17
79	First-principles predicted low-energy structures of NaSc(BH <sub>4</sub> ) <sub>4</sub> . <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 124708	3.9	17
78	Toward an All-Around Semilocal Potential for Electronic Exchange. <i>Journal of Chemical Theory and Computation</i> , <b>2010</b> , 6, 3664-3670	6.4	17
77	Enhancing the superconducting transition temperature of BaSi <sub>2</sub> by structural tuning. <i>Physical Review Letters</i> , <b>2011</b> , 106, 087002	7.4	17
76	Optical Properties of Nanostructures from Time-Dependent Density Functional Theory. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2004</b> , 1, 231-255	0.3	17
75	Neural network force fields for simple metals and semiconductors: construction and application to the calculation of phonons and melting temperatures. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 6506-6516	3.6	16



74	Optical properties of Cu-chalcogenide photovoltaic absorbers from self-consistent GW and the Bethe-Salpeter equation. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	16
73	Local Hybrid Density Functional for Interfaces. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 939-947	6.4	16
72	Atomic and electronic properties of quasi-one-dimensional MOS nanowires. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 240-249	2.5	16
71	Double perovskites as p-type conducting transparent semiconductors: a high-throughput search. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14705-14711	13	15
70	Local Modified Becke-Johnson Exchange-Correlation Potential for Interfaces, Surfaces, and Two-Dimensional Materials. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 2654-2660	6.4	15
69	Benchmarking the AK13 Exchange Functional: Ionization Potentials and Electron Affinities. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 5625-9	6.4	15
68	Nanostructured water and carbon dioxide inside collapsing carbon nanotubes at high pressure. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 19926-32	3.6	15
67	Rare-earth magnetic nitride perovskites. <i>JPhys Materials</i> , <b>2019</b> , 2, 025003	4.2	14
66	Construction of the B88 Exchange-Energy Functional in Two Dimensions. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 1837-42	6.4	14
65	On the use of Neumann's principle for the calculation of the polarizability tensor of nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 3392-8	1.3	14
64	Density functional theory for superconductors. <i>International Journal of Quantum Chemistry</i> , <b>2004</b> , 99, 790-797	2.1	14
63	First-Principles Identification of Single Photon Emitters Based on Carbon Clusters in Hexagonal Boron Nitride. <i>Journal of Physical Chemistry A</i> , <b>2021</b> , 125, 1325-1335	2.8	14
62	Efficient Automatized Density-Functional Tight-Binding Parametrizations: Application to Group IV Elements. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 2947-2954	6.4	13
61	Prediction of a novel monoclinic carbon allotrope. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	13
60	Relating correlation measures: The importance of the energy gap. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	13
59	A viable way to tailor carbon nanomaterials by irradiation-induced transformations. <i>Radiation Physics and Chemistry</i> , <b>2005</b> , 73, 334-339	2.5	13
58	Novel phases of lithium-aluminum binaries from first-principles structural search. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 024710	3.9	12
57	Nitrogen-hydrogen-oxygen ternary phase diagram: New phases at high pressure from structural prediction. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	12



56	Structural prediction of stabilized atomically thin tin layers. <i>Npj 2D Materials and Applications</i> , <b>2019</b> , 3,	8.8	11
55	Response Functions in TDDFT: Concepts and Implementation. <i>Lecture Notes in Physics</i> , <b>2012</b> , 139-166	0.8	11
54	Stable Ordered Phases of Cuprous Iodide with Complexes of Copper Vacancies. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7877-7882	9.6	10
53	Investigation of new phases in the Ba-Si phase diagram under high pressure using ab initio structural search. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 8108-14	3.6	10
52	Violation of a local form of the Lieb-Oxford bound. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	10
51	Ab Initio Electronic Gaps of Ge Nanodots: The Role of Self-Energy Effects. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 14229-14234	3.8	10
50	The crystal structure of p-type transparent conductive oxide CuBO <sub>2</sub> . <i>MRS Communications</i> , <b>2013</b> , 3, 157-160	1.0	10
49	Time and energy-resolved two photon photoemission of the Cu(1 0 0) and Cu(1 1 1) metal surfaces. <i>Computational Materials Science</i> , <b>2004</b> , 30, 110-115	3.2	10
48	Superconductivity in an expanded phase of ZnO: an ab initio study. <i>New Journal of Physics</i> , <b>2015</b> , 17, 043034	2.4	9
47	Reduced Density Matrix Functional Theory for Bosons. <i>Physical Review Letters</i> , <b>2020</b> , 124, 180603	7.4	9
46	Validation of Pseudopotential Calculations for the Electronic Band Gap of Solids. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 3620-3627	6.4	9
45	Topological Crystalline Insulator in a New Bi Semiconducting Phase. <i>Scientific Reports</i> , <b>2016</b> , 6, 21790	4.9	9
44	Reduced density matrix functional theory for superconductors. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	9
43	Research Update: Stable single-phase Zn-rich Cu <sub>2</sub> ZnSnSe <sub>4</sub> through In doping. <i>APL Materials</i> , <b>2016</b> , 4, 070701	5.7	9
42	Static correlated functionals for reduced density matrix functional theory. <i>European Physical Journal B</i> , <b>2018</b> , 91, 1	1.2	9
41	Accurate electronic band gaps of two-dimensional materials from the local modified Becke-Johnson potential. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	8
40	On the time evolution of fermionic occupation numbers. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 044112	3.9	8
39	Prediction and Synthesis of a Non-Zintl Silicon Clathrate. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3711-3717	9.6	8

38	Predicting stable crystalline compounds using chemical similarity. <i>Npj Computational Materials</i> , <b>2021</b> , 7, 10.9 8
37	High-pressure phases of VO <sub>2</sub> from the combination of Raman scattering and ab initio structural search. <i>Physical Review B</i> , <b>2018</b> , 97, 3.3 7
36	Ab initio calculations of the ground and excited states of the YN molecule including spin-orbit effects. <i>Chemical Physics</i> , <b>2014</b> , 429, 33-43 2.3 7
35	A high-throughput study of oxynitride, oxyfluoride and nitrofluoride perovskites. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 8501-8513 1.3 7
34	Roadmap on Machine Learning in Electronic Structure. <i>Electronic Structure</i> , 2.6 7
33	Simple preconditioning for time-dependent density functional perturbation theory. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 014103 3.9 6
32	Optimal control of the electronic current density: Application to one- and two-dimensional one-electron systems. <i>Physical Review A</i> , <b>2011</b> , 83, 2.6 6
31	Novel two-dimensional silicon-carbon binaries by crystal structure prediction. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 8442-8449 3.6 5
30	On the calculation of the bandgap of periodic solids with MGGA functionals using the total energy. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 161102 3.9 5
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28	Modeling van der Waals interactions between proteins and inorganic surfaces from time-dependent density functional theory calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 15055-61 3.6 5
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