

# Cesare Franchini

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6219125/cesare-franchini-publications-by-citations.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

142  
papers

6,742  
citations

40  
h-index

79  
g-index

154  
ext. papers

7,906  
ext. citations

5.4  
avg, IF

6.08  
L-index

#	Paper	IF	Citations
142	Dirac semimetal and topological phase transitions in A3Bi (A=Na, K, Rb). <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	1244
141	Stacking effects on the electronic and optical properties of bilayer transition metal dichalcogenides MoS2, MoSe2, WS2, and WSe2. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	328
140	Role of self-trapping in luminescence and p-type conductivity of wide-band-gap oxides. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	328
139	Direct view at excess electrons in TiO2 rutile and anatase. <i>Physical Review Letters</i> , <b>2014</b> , 113, 086402	7.4	300
138	Ground-state properties of multivalent manganese oxides: Density functional and hybrid density functional calculations. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	259
137	Tunable ferroelectric polarization and its interplay with spin-orbit coupling in tin iodide perovskites. <i>Nature Communications</i> , <b>2014</b> , 5, 5900	17.4	215
136	Role of Polar Phonons in the Photo Excited State of Metal Halide Perovskites. <i>Scientific Reports</i> , <b>2016</b> , 6, 28618	4.9	178
135	Density functional theory study of MnO by a hybrid functional approach. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	147
134	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
133	Dual behavior of excess electrons in rutile TiO2. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2013</b> , 7, 199-203	2.5	126
132	Screened hybrid functional applied to 3d0-3d8 transition-metal perovskites LaMO3 (M = Sc,Ti): Influence of the exchange mixing parameter on the structural, electronic, and magnetic properties. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	124
131	Superconducting properties of MgB2 from first principles. <i>Physical Review Letters</i> , <b>2005</b> , 94, 037004	7.4	122
130	Hardness of T-carbon: Density functional theory calculations. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	120
129	Charge trapping at the step edges of TiO(2) anatase (101). <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 4714-6	16.4	90
128	Maximally localized Wannier functions in LaMnO3 within PBE + U, hybrid functionals and partially self-consistent GW: an efficient route to construct ab initio tight-binding parameters for eg perovskites. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 235602	1.8	88
127	Anisotropic two-dimensional electron gas at SrTiO3(110). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 3933-7	11.5	83
126	Rocksalt SnS and SnSe: Native topological crystalline insulators. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	79

125	Polaronic hole trapping in doped BaBiO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2009</b> , 102, 256402	7.4	77
124	Behavior of Methylammonium Dipoles in MAPbX (X = Br and I). <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 4113-4121	6.4	76
123	Unraveling CO adsorption on model single-atom catalysts. <i>Science</i> , <b>2021</b> , 371, 375-379	33.3	72
122	Coexistence of trapped and free excess electrons in SrTiO <sub>3</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	68
121	Structural, vibrational, and quasiparticle properties of the Peierls semiconductor BaBiO <sub>3</sub> : A hybrid functional and self-consistent GW+vertex-corrections study. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	66
120	Electronic, optical, and mechanical properties of superhard cold-compressed phases of carbon. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 031901	3.4	62
119	Electronic structure of PbFe <sub>1/2</sub> Ta <sub>1/2</sub> O <sub>3</sub> : Crystallographic ordering and magnetic properties. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	60
118	Density functional study of the polar MnO(111) surface. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	59
117	Hybrid functionals applied to perovskites. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 253202	1.8	58
116	Polarons in materials. <i>Nature Reviews Materials</i> , <b>2021</b> , 6, 560-586	73.3	58
115	Polarity compensation mechanisms on the perovskite surface KTaO(001). <i>Science</i> , <b>2018</b> , 359, 572-575	33.3	57
114	Water agglomerates on FeO(001). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E5642-E5650	11.5	57
113	Local Structure and Coordination Define Adsorption in a Model Ir /Fe O Single-Atom Catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13961-13968	16.4	55
112	Anisotropic magnetic couplings and structure-driven canted to collinear transitions in Sr <sub>2</sub> IrO <sub>4</sub> by magnetically constrained noncollinear DFT. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	55
111	Exchange interactions and magnetic phases of transition metal oxides: Benchmarking advanced ab initio methods. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	53
110	Formation of Mn <sub>3</sub> O <sub>4</sub> (001) on MnO(001): Surface and interface structural stability. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	53
109	Room-temperature dynamic correlation between methylammonium molecules in lead-iodine based perovskites: An ab initio molecular dynamics perspective. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	51
108	Spin fluctuation induced Weyl semimetal state in the paramagnetic phase of EuCdAs. <i>Science Advances</i> , <b>2019</b> , 5, eaaw4718	14.3	48

107	Epitaxial stabilization of MnO(111) overlayers on a Pd(100) surface. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	44
106	Donor defects and small polarons on the TiO <sub>2</sub> (110) surface. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 181503.5		44
105	Interplay between Adsorbates and Polarons: CO on Rutile TiO <sub>2</sub> (110). <i>Physical Review Letters</i> , <b>2019</b> , 122, 016805	7-4	44
104	Formation and dynamics of small polarons on the rutile TiO <sub>2</sub> (110) surface. <i>Physical Review B</i> , <b>2018</b> , 98,	3-3	42
103	The random phase approximation applied to ice. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 084502	3-9	40
102	Three-Dimensional Electronic Structure of the Type-II Weyl Semimetal WTe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2017</b> , 119, 026403	7-4	40
101	Ab initio study of the structural, electronic, and magnetic properties of MnO(100) and MnO(110). <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	40
100	Structure of the c(2×2)-Br/Pt(110) surface. <i>Physical Review B</i> , <b>2002</b> , 65,	3-3	40
99	Influence of surface atomic structure demonstrated on oxygen incorporation mechanism at a model perovskite oxide. <i>Nature Communications</i> , <b>2018</b> , 9, 3710	17-4	40
98	Dipole Order in Halide Perovskites: Polarization and Rashba Band Splittings. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 23045-23054	3-8	39
97	Exceptionally strong magnetism in the 4d perovskites RTcO <sub>3</sub> (R=Ca, Sr, Ba). <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	39
96	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
95	Ab initio prediction of pressure-induced superconductivity in potassium. <i>Physical Review B</i> , <b>2006</b> , 73,	3-3	37
94	Structural and vibrational properties of two-dimensional Mn <sub>x</sub> O <sub>y</sub> layers on Pd(100): Experiments and density functional theory calculations. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	36
93	Exceptionally large room-temperature ferroelectric polarization in the PbNiO <sub>3</sub> multiferroic nickelate: First-principles study. <i>Physical Review B</i> , <b>2012</b> , 86,	3-3	34
92	Tuning the vertical location of helical surface states in topological insulator heterostructures via dual-proximity effects. <i>Scientific Reports</i> , <b>2013</b> , 3, 1233	4-9	34
91	Structural transitions and transport-half-metallic ferromagnetism in LaMnO <sub>3</sub> at elevated pressure. <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	33
90	Proton Ordering of Cubic Ice Ic: Spectroscopy and Computer Simulations. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 10989-10997	3-8	31

89	Two-dimensional manganese oxide nanolayers on Pd(100): the surface phase diagram. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 134008	1.8	30
88	Water Adsorption at the Tetrahedral Titania Surface Layer of SrTiO(110)-(4 × 4). <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 26060-26069	3.8	29
87	Strain-driven onset of nontrivial topological insulating states in Zintl Sr <sub>2</sub> X compounds (X=Pb, Sn). <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	29
86	Local Structure and Coordination Define Adsorption in a Model Ir <sub>1</sub> /Fe <sub>3</sub> O <sub>4</sub> Single-Atom Catalyst. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14099-14106	3.6	28
85	Interplay between magnetic, electronic, and vibrational effects in monolayer Mn <sub>3</sub> O <sub>4</sub> grown on Pd(100). <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 124707	3.9	28
84	Converged GW quasiparticle energies for transition metal oxide perovskites. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	28
83	Assessing the performance of self-consistent hybrid functional for band gap calculation in oxide semiconductors. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 454004	1.8	27
82	Lifshitz transition driven by spin fluctuations and spin-orbit renormalization in NaOsO <sub>3</sub> . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	27
81	Dimensionality-strain phase diagram of strontium iridates. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	26
80	Strained c(4 × 4) CoO(1 0 0)-like monolayer on Pd(1 0 0): Experiment and theory. <i>Surface Science</i> , <b>2010</b> , 604, 529-534	1.8	26
79	Large enhancement of the photovoltaic effect in ferroelectric complex oxides through bandgap reduction. <i>Scientific Reports</i> , <b>2016</b> , 6, 28313	4.9	25
78	Tunable metal-insulator transition, Rashba effect and Weyl Fermions in a relativistic charge-ordered ferroelectric oxide. <i>Nature Communications</i> , <b>2018</b> , 9, 492	17.4	24
77	Lithium Niobate-Type Oxides as Visible Light Photovoltaic Materials. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 25-29	9.6	24
76	Ferroelectric Oxides with Strong Visible-Light Absorption from Charge Ordering. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2445-2451	9.6	24
75	Hybrid density-functional calculation of the electronic and magnetic structures of tetragonal CuO. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	24
74	(3 × 3)-Br/Pt(1 10) structure and the charge-density-wave-assisted c(2 × 2) to (3 × 3) phase transition. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	23
73	Relativistic GW+BSE study of the optical properties of Ruddlesden-Popper iridates. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	23
72	Electron and hole doping in the relativistic Mott insulator Sr <sub>2</sub> IrO <sub>4</sub> : A first-principles study using band unfolding technique. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	23

71	Polaron-Driven Surface Reconstructions. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	22
70	Halogen-induced corrosion of platinum. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 2827-9	16.4	20
69	Probing the geometry of copper and silver adatoms on magnetite: quantitative experiment versus theory. <i>Nanoscale</i> , <b>2018</b> , 10, 2226-2230	7.7	19
68	Anisotropy of magnetic interactions and symmetry of the order parameter in unconventional superconductor Sr <sub>2</sub> RuO <sub>4</sub> . <i>Npj Quantum Materials</i> , <b>2017</b> , 2,	5	19
67	Structural and ferroelectric transitions in magnetic nickelate PbNiO <sub>3</sub> . <i>New Journal of Physics</i> , <b>2014</b> , 16, 015030	2.9	19
66	Polymeric forms of carbon in dense lithium carbide. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 2922018	18	
65	Resolving the adsorption of molecular O on the rutile TiO(110) surface by noncontact atomic force microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 14827-14837	11.5	16
64	Assessing model-dielectric-dependent hybrid functionals on the antiferromagnetic transition-metal monoxides MnO, FeO, CoO, and NiO. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 015502	1.8	16
63	Energetics of the coupled electronic-structural transition in the rare-earth nickelates. <i>Npj Quantum Materials</i> , <b>2019</b> , 4,	5	15
62	Small Polarons in Transition Metal Oxides <b>2019</b> , 1-39		15
61	Combined first-principles and model Hamiltonian study of the perovskite series RMnO <sub>3</sub> (R=La,Pr,Nd,Sm,Eu, and Gd). <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	14
60	Stabilizing Single Ni Adatoms on a Two-Dimensional Porous Titania Overlayer at the SrTiO(110) Surface. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 19904-19909	3.8	14
59	Structural, electronic, and ferroelectric properties of compressed CdPbO <sub>3</sub> polymorphs. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 1032-9	5.1	14
58	Direct measurement of Ni incorporation into FeO(001). <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 16469-16476	3.6	13
57	Magnetic properties of bilayer Sr <sub>3</sub> Ir <sub>2</sub> O <sub>7</sub> : Role of epitaxial strain and oxygen vacancies. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	12
56	Structural determination and electronic properties of the 4d perovskite SrPdO <sub>3</sub> . <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	12
55	Vacancy clusters at domain boundaries and band bending at the SrTiO <sub>3</sub> (110) surface. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	11
54	Phase transitions driven by competing interactions in low-dimensional systems. <i>Europhysics Letters</i> , <b>2010</b> , 92, 26004	1.6	11

53	Parametrization of LSDA+U for noncollinear magnetic configurations: Multipolar magnetism in UO <sub>2</sub> . <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	11
52	Tunable relativistic quasiparticle electronic and excitonic behavior of the FAPb(I <sub>2</sub> ) alloy. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 11943-11955	3.6	10
51	Strain-induced tuning of the electronic Coulomb interaction in 3d transition metal oxide perovskites. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	10
50	Chemical Pressure-Induced Ferromagnetism and Stabilization of the Metallic State in Ba <sub>1-x</sub> Sr <sub>x</sub> V <sub>2</sub> S <sub>3</sub> . <i>International Journal of Modern Physics B</i> , <b>2003</b> , 17, 3503-3508	1.1	10
49	Ru doping in iron-based pnictides: The "unfolded" dominant role of structural effects for superconductivity. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	9
48	Diagrammatic Monte Carlo study of Fröhlich polaron dispersion in two and three dimensions. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	9
47	Influence of Local Defects on the Dynamics of O-H Bond Breaking and Formation on a Magnetite Surface. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 19742-19747	3.8	8
46	Superconductivity in SrTiO <sub>3</sub> : Dielectric Function Method for Non-Parabolic Bands. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2019</b> , 32, 2739-2744	1.5	7
45	Experimental observation of defect pair separation triggering phase transitions. <i>Scientific Reports</i> , <b>2014</b> , 4, 4110	4.9	7
44	First-principles investigation of BaFe <sub>2</sub> As <sub>2</sub> (001). <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	7
43	Thickness dependent structural and electronic properties of CuO grown on SrTiO <sub>3</sub> (110): a hybrid density functional theory study. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 045004	1.8	7
42	Role of electronic correlations on the ground-state properties and on the pressure-induced metal-insulator transition in BaV <sub>2</sub> S <sub>3</sub> . <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	7
41	Covalent effects in magnetic ferroelectrics MnMO <sub>3</sub> (M = Ti, Sn). <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 626-634	1.3	6
40	Comment on "Cleavage surface of the BaFe <sub>2</sub> As <sub>2</sub> and Fe <sub>1-x</sub> Te <sub>x</sub> superconductors: A combined STM plus LEED study" <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	6
39	Electronically driven phase transitions in a quasi-one-dimensional adsorbate system. <i>European Physical Journal B</i> , <b>2010</b> , 75, 15-22	1.2	6
38	Cubic and tetragonal perovskites from the random phase approximation. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	6
37	CuAu, a hexagonal two-dimensional metal. <i>2D Materials</i> , <b>2020</b> , 7, 045017	5.9	5
36	Ab initio prediction of the high-pressure phase diagram of BaBiO <sub>3</sub> . <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	5

35	Degenerate Phases of Iodine on Pt(110) at Half-Monolayer Coverage. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 29919-29927	3.8	5
34	Tailor-made ultrathin manganese oxide nanostripes: 'magic widths' on Pd(1 1 N) terraces. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 042001	1.8	5
33	Structural, transport, and electronic properties of a layered dichalcogenide AuVS <sub>2</sub> with semimetallic properties. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	5
32	Comparative ab initio study of the structural, electronic, magnetic, and dynamical properties of LiOsO <sub>3</sub> and NaOsO <sub>3</sub> . <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	5
31	Small Polarons in Transition Metal Oxides <b>2020</b> , 1035-1073		5
30	Osmates on the Verge of a Hund's-Mott Transition: The Different Fates of NaOsO <sub>3</sub> and LiOsO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2020</b> , 125, 166402	7.4	5
29	Effective band structure of Ru-doped BaFe <sub>2</sub> As <sub>2</sub> . <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 689, 012027	0.3	5
28	Halogen Phases on Pd(110): Compression Structures, Domain Walls, and Corrosion. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 3613-3623	3.8	4
27	CO oxidation by Pt/FeO: Metastable dimer and support configurations facilitate lattice oxygen extraction.. <i>Science Advances</i> , <b>2022</b> , 8, eabn4580	14.3	4
26	Probing structural changes upon carbon monoxide coordination to single metal adatoms. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 051102	3.9	3
25	Optical Response of an Interacting Polaron Gas in Strongly Polar Crystals. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2059	2.6	3
24	Charge Trapping an Stufenkanten von Anatas-TiO <sub>2</sub> (101). <i>Angewandte Chemie</i> , <b>2014</b> , 126, 4804-4807	3.6	3
23	SrRuO <sub>3</sub> /SrTiO <sub>3</sub> heterostructure as a possible platform for studying unconventional superconductivity in Sr <sub>2</sub> RuO <sub>4</sub> . <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
22	Kagome metal-organic frameworks as a platform for strongly correlated electrons. <i>JPhys Materials</i> , <b>2020</b> , 3, 025001	4.2	2
21	Electron-phonon interactions using the projector augmented-wave method and Wannier functions. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
20	Intriguing electronic and optical properties of M <sub>2</sub> CX <sub>2</sub> (M = Mo, W; X = O, F) MXenes and their van der Waals heterostructures. <i>Chemical Physics Letters</i> , <b>2019</b> , 731, 136614	2.5	2
19	Doping-induced insulator-metal transition in the Lifshitz magnetic insulator NaOsO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 244002	1.8	2
18	Competing magnetic interactions in a spin-12 square lattice: Hidden order in Sr <sub>2</sub> VO <sub>4</sub> . <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	2



17	Chemical-pressure-induced modifications on the magnetic and electronic properties of Ba <sub>1-x</sub> Sr <sub>x</sub> VS <sub>3</sub> . <i>Europhysics Letters</i> , <b>2005</b> , 71, 952-958	1.6	2
16	Structural and electronic properties of Hg <sub>1-y</sub> MoyBa <sub>2</sub> CuO <sub>4</sub> . <i>Physical Review B</i> , <b>2000</b> , 62, 9163-9171	3.3	2
15	Rapid oxygen exchange between hematite and water vapor. <i>Nature Communications</i> , <b>2021</b> , 12, 6488	17.4	2
14	Challenges and Opportunities in Modeling Oxides for Energy and Information Devices <b>2020</b> , 1001-1012		2
13	Electronic State Unfolding for Plane Waves: Energy Bands, Fermi Surfaces, and Spectral Functions. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 12921-12928	3.8	2
12	Nanoscale synthesis of ionic analogues of bilayer silicene with high carrier mobility. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 8545-8551	7.1	2
11	Doping Evolution of the Local Electronic and Structural Properties of the Double Perovskite BaNaCaOsO. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 16577-16585	3.8	1
10	Ab-initio Computation of Superconducting Properties of Elemental Superconductors and MgB <sub>2</sub> . <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2005</b> , 18, 649-652		1
9	Aberrant electronic and structural alterations in pressure tuned perovskite NaOsO <sub>3</sub> . <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	1
8	Interplay between multipolar spin interactions, Jahn-Teller effect, and electronic correlation in a Jeff=3/2 insulator. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
7	Advanced First-Principle Modeling of Relativistic Ruddlesden-Popper Strontium Iridates. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2527	2.6	1
6	Pressure-Induced Excitations in the Out-of-Plane Optical Response of the Nodal-Line Semimetal ZrSiS. <i>Physical Review Letters</i> , <b>2021</b> , 127, 076402	7.4	1
5	Ferro-octupolar Order and Low-Energy Excitations in d <sup>2</sup> Double Perovskites of Osmium.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 237201	7.4	0
4	Challenges and Opportunities in Modeling Oxides for Energy and Information Devices <b>2019</b> , 1-13		
3	Low Dimensionality and Epitaxial Stabilization in Metal-Supported Oxide Nanostructures: Mn <sub>x</sub> O <sub>y</sub> on Pd(100) Mn <sub>x</sub> O <sub>y</sub> . <i>Springer Series in Materials Science</i> , <b>2012</b> , 209-237	0.9	
2	Special issue on novel superconducting and magnetic materials. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 040401	1.8	
1	Revealing the quasiparticle electronic and excitonic nature in cubic, tetragonal, and hexagonal phases of FAPbI <sub>3</sub> . <i>AIP Advances</i> , <b>2022</b> , 12, 025330	1.5	