

Cesare Franchini

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.

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	Revealing the quasiparticle electronic and excitonic nature in cubic, tetragonal, and hexagonal phases of FAPbI ₃ . <i>AIP Advances</i> , 2022 , 12, 025330	1.5	
141	CO oxidation by Pt/FeO: Metastable dimer and support configurations facilitate lattice oxygen extraction.. <i>Science Advances</i> , 2022 , 8, eabn4580	14.3	4
140	Ferro-octupolar Order and Low-Energy Excitations in d ² Double Perovskites of Osmium.. <i>Physical Review Letters</i> , 2021 , 127, 237201	7.4	0
139	Rapid oxygen exchange between hematite and water vapor. <i>Nature Communications</i> , 2021 , 12, 6488	17.4	2
138	Interplay between multipolar spin interactions, Jahn-Teller effect, and electronic correlation in a Jeff=32 insulator. <i>Physical Review B</i> , 2021 , 103,	3.3	1
137	Polarons in materials. <i>Nature Reviews Materials</i> , 2021 , 6, 560-586	73.3	58
136	Advanced First-Principle Modeling of Relativistic Ruddlesden-Popper Strontium Iridates. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2527	2.6	1
135	Electronic State Unfolding for Plane Waves: Energy Bands, Fermi Surfaces, and Spectral Functions. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12921-12928	3.8	2
134	Nanoscale synthesis of ionic analogues of bilayer silicene with high carrier mobility. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8545-8551	7.1	2
133	Unraveling CO adsorption on model single-atom catalysts. <i>Science</i> , 2021 , 371, 375-379	33.3	72
132	Pressure-Induced Excitations in the Out-of-Plane Optical Response of the Nodal-Line Semimetal ZrSiS. <i>Physical Review Letters</i> , 2021 , 127, 076402	7.4	1
131	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> , 2020 , 117, 14827-14837	11.5	16
130	SrRuO ₃ /BrTiO ₃ heterostructure as a possible platform for studying unconventional superconductivity in Sr ₂ RuO ₄ . <i>Physical Review B</i> , 2020 , 101,	3.3	2
129	Assessing model-dielectric-dependent hybrid functionals on the antiferromagnetic transition-metal monoxides MnO, FeO, CoO, and NiO. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 015502	1.8	16
128	Doping Evolution of the Local Electronic and Structural Properties of the Double Perovskite BaNaCaOsO. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16577-16585	3.8	1
127	CuAu, a hexagonal two-dimensional metal. <i>2D Materials</i> , 2020 , 7, 045017	5.9	5
126	Kagome metal-organic frameworks as a platform for strongly correlated electrons. <i>JPhys Materials</i> , 2020 , 3, 025001	4.2	2

125	Probing structural changes upon carbon monoxide coordination to single metal adatoms. <i>Journal of Chemical Physics</i> , 2020 , 152, 051102	3.9	3
124	Tunable relativistic quasiparticle electronic and excitonic behavior of the FAPb(I ₂) alloy. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11943-11955	3.6	10
123	Electron-phonon interactions using the projector augmented-wave method and Wannier functions. <i>Physical Review B</i> , 2020 , 101,	3.3	2
122	Optical Response of an Interacting Polaron Gas in Strongly Polar Crystals. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2059	2.6	3
121	Comparative ab initio study of the structural, electronic, magnetic, and dynamical properties of LiOsO ₃ and NaOsO ₃ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
120	Challenges and Opportunities in Modeling Oxides for Energy and Information Devices 2020 , 1001-1012		2
119	Small Polarons in Transition Metal Oxides 2020 , 1035-1073		5
118	Special issue on novel superconducting and magnetic materials. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 040401	1.8	
117	Osmates on the Verge of a Hund's-Mott Transition: The Different Fates of NaOsO ₃ and LiOsO ₃ . <i>Physical Review Letters</i> , 2020 , 125, 166402	7.4	5
116	Aberrant electronic and structural alterations in pressure tuned perovskite NaOsO ₃ . <i>Npj Quantum Materials</i> , 2020 , 5,	5	1
115	Superconductivity in SrTiO ₃ : Dielectric Function Method for Non-Parabolic Bands. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 2739-2744	1.5	7
114	Energetics of the coupled electronic-structural transition in the rare-earth nickelates. <i>Npj Quantum Materials</i> , 2019 , 4,	5	15
113	Challenges and Opportunities in Modeling Oxides for Energy and Information Devices 2019 , 1-13		
112	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> , 2019 , 123, 19742-19747	3.8	8
111	Spin fluctuation induced Weyl semimetal state in the paramagnetic phase of EuCdAs. <i>Science Advances</i> , 2019 , 5, eaaw4718	14.3	48
110	Local Structure and Coordination Define Adsorption in a Model Ir /Fe O Single-Atom Catalyst. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13961-13968	16.4	55
109	Local Structure and Coordination Define Adsorption in a Model Ir ₁ /Fe ₃ O ₄ Single-Atom Catalyst. <i>Angewandte Chemie</i> , 2019 , 131, 14099-14106	3.6	28
108	Intriguing electronic and optical properties of M ₂ CX ₂ (M = Mo, W; X = O, F) MXenes and their van der Waals heterostructures. <i>Chemical Physics Letters</i> , 2019 , 731, 136614	2.5	2

107	Doping-induced insulator-metal transition in the Lifshitz magnetic insulator NaOsO. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 244002	1.8	2
106	Parametrization of LSDA+U for noncollinear magnetic configurations: Multipolar magnetism in UO ₂ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	11
105	Cubic and tetragonal perovskites from the random phase approximation. <i>Physical Review Materials</i> , 2019 , 3,	3.2	6
104	Small Polarons in Transition Metal Oxides 2019 , 1-39		15
103	Interplay between Adsorbates and Polarons: CO on Rutile TiO ₂ (110). <i>Physical Review Letters</i> , 2019 , 122, 016805	7.4	44
102	Diagrammatic Monte Carlo study of Fröhlich polaron dispersion in two and three dimensions. <i>Physical Review B</i> , 2018 , 97,	3.3	9
101	Tunable metal-insulator transition, Rashba effect and Weyl Fermions in a relativistic charge-ordered ferroelectric oxide. <i>Nature Communications</i> , 2018 , 9, 492	17.4	24
100	Polarity compensation mechanisms on the perovskite surface KTaO(001). <i>Science</i> , 2018 , 359, 572-575	33.3	57
99	Probing the geometry of copper and silver adatoms on magnetite: quantitative experiment versus theory. <i>Nanoscale</i> , 2018 , 10, 2226-2230	7.7	19
98	Formation and dynamics of small polarons on the rutile TiO ₂ (110) surface. <i>Physical Review B</i> , 2018 , 98,	3.3	42
97	Strain-induced tuning of the electronic Coulomb interaction in 3d transition metal oxide perovskites. <i>Physical Review B</i> , 2018 , 98,	3.3	10
96	Water agglomerates on FeO(001). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5642-E5650	11.5	57
95	Direct measurement of Ni incorporation into FeO(001). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16469-16476	3.6	13
94	Converged GW quasiparticle energies for transition metal oxide perovskites. <i>Physical Review Materials</i> , 2018 , 2,	3.2	28
93	Relativistic GW+BSE study of the optical properties of Ruddlesden-Popper iridates. <i>Physical Review Materials</i> , 2018 , 2,	3.2	23
92	Influence of surface atomic structure demonstrated on oxygen incorporation mechanism at a model perovskite oxide. <i>Nature Communications</i> , 2018 , 9, 3710	17.4	40
91	Magnetic properties of bilayer Sr ₃ Ir ₂ O ₇ : Role of epitaxial strain and oxygen vacancies. <i>Physical Review B</i> , 2017 , 95,	3.3	12
90	Dimensionality-strain phase diagram of strontium iridates. <i>Physical Review B</i> , 2017 , 95,	3.3	26

89	Polaron-Driven Surface Reconstructions. <i>Physical Review X</i> , 2017 , 7,	9.1	22
88	Ru doping in iron-based pnictides: The "unfolded" dominant role of structural effects for superconductivity. <i>Physical Review B</i> , 2017 , 95,	3.3	9
87	Dipole Order in Halide Perovskites: Polarization and Rashba Band Splittings. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23045-23054	3.8	39
86	Behavior of Methylammonium Dipoles in MAPbX (X = Br and I). <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4113-4121	6.4	76
85	Assessing the performance of self-consistent hybrid functional for band gap calculation in oxide semiconductors. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 454004	1.8	27
84	Competing magnetic interactions in a spin-12 square lattice: Hidden order in Sr ₂ VO ₄ . <i>Physical Review B</i> , 2017 , 96,	3.3	2
83	Three-Dimensional Electronic Structure of the Type-II Weyl Semimetal WTe ₂ . <i>Physical Review Letters</i> , 2017 , 119, 026403	7.4	40
82	Anisotropy of magnetic interactions and symmetry of the order parameter in unconventional superconductor Sr ₂ RuO ₄ . <i>Npj Quantum Materials</i> , 2017 , 2,	5	19
81	Ab initio prediction of the high-pressure phase diagram of BaBiO ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	5
80	Ferroelectric Oxides with Strong Visible-Light Absorption from Charge Ordering. <i>Chemistry of Materials</i> , 2017 , 29, 2445-2451	9.6	24
79	Role of Polar Phonons in the Photo Excited State of Metal Halide Perovskites. <i>Scientific Reports</i> , 2016 , 6, 28618	4.9	178
78	Large enhancement of the photovoltaic effect in ferroelectric complex oxides through bandgap reduction. <i>Scientific Reports</i> , 2016 , 6, 28313	4.9	25
77	Combined first-principles and model Hamiltonian study of the perovskite series RMnO ₃ (R=La,Pr,Nd,Sm,Eu, and Gd). <i>Physical Review B</i> , 2016 , 93,	3.3	14
76	Lithium Niobate-Type Oxides as Visible Light Photovoltaic Materials. <i>Chemistry of Materials</i> , 2016 , 28, 25-29	9.6	24
75	Effective band structure of Ru-doped BaFe ₂ As ₂ . <i>Journal of Physics: Conference Series</i> , 2016 , 689, 0120270.3		5
74	Electron and hole doping in the relativistic Mott insulator Sr ₂ IrO ₄ : A first-principles study using band unfolding technique. <i>Physical Review B</i> , 2016 , 94,	3.3	23
73	Room-temperature dynamic correlation between methylammonium molecules in lead-iodine based perovskites: An ab initio molecular dynamics perspective. <i>Physical Review B</i> , 2016 , 94,	3.3	51
72	Lifshitz transition driven by spin fluctuations and spin-orbit renormalization in NaOsO ₃ . <i>Physical Review B</i> , 2016 , 94,	3.3	27

71	Donor defects and small polarons on the TiO ₂ (110) surface. <i>Journal of Applied Physics</i> , 2016 , 119, 181503.	3.5	44
70	Coexistence of trapped and free excess electrons in SrTiO ₃ . <i>Physical Review B</i> , 2015 , 91,	3.3	68
69	Anisotropic magnetic couplings and structure-driven canted to collinear transitions in Sr ₂ IrO ₄ by magnetically constrained noncollinear DFT. <i>Physical Review B</i> , 2015 , 92,	3.3	55
68	Covalent effects in magnetic ferroelectrics MnMO ₃ (M = Ti, Sn). <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 626-634	1.3	6
67	Halogen Phases on Pd(110): Compression Structures, Domain Walls, and Corrosion. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3613-3623	3.8	4
66	Experimental observation of defect pair separation triggering phase transitions. <i>Scientific Reports</i> , 2014 , 4, 4110	4.9	7
65	Stacking effects on the electronic and optical properties of bilayer transition metal dichalcogenides MoS ₂ , MoSe ₂ , WS ₂ , and WSe ₂ . <i>Physical Review B</i> , 2014 , 89,	3.3	328
64	Anisotropic two-dimensional electron gas at SrTiO ₃ (110). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3933-7	11.5	83
63	Direct view at excess electrons in TiO ₂ rutile and anatase. <i>Physical Review Letters</i> , 2014 , 113, 086402	7.4	300
62	Vacancy clusters at domain boundaries and band bending at the SrTiO ₃ (110) surface. <i>Physical Review B</i> , 2014 , 90,	3.3	11
61	The random phase approximation applied to ice. <i>Journal of Chemical Physics</i> , 2014 , 140, 084502	3.9	40
60	Proton Ordering of Cubic Ice Ic: Spectroscopy and Computer Simulations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10989-10997	3.8	31
59	Stabilizing Single Ni Adatoms on a Two-Dimensional Porous Titania Overlayer at the SrTiO ₃ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19904-19909	3.8	14
58	Hybrid functionals applied to perovskites. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 253202	1.8	58
57	Charge trapping at the step edges of TiO ₂ anatase (101). <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4714-6	16.4	90
56	Structural determination and electronic properties of the 4d perovskite SrPdO ₃ . <i>Physical Review B</i> , 2014 , 89,	3.3	12
55	Charge Trapping an Stufenkanten von Anatas-TiO ₂ (101). <i>Angewandte Chemie</i> , 2014 , 126, 4804-4807	3.6	3
54	Degenerate Phases of Iodine on Pt(110) at Half-Monolayer Coverage. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29919-29927	3.8	5

53	Structural and ferroelectric transitions in magnetic nickelate PbNiO ₃ . <i>New Journal of Physics</i> , 2014 , 16, 015030	2.9	19
52	Tunable ferroelectric polarization and its interplay with spin-orbit coupling in tin iodide perovskites. <i>Nature Communications</i> , 2014 , 5, 5900	17.4	215
51	Rocksalt SnS and SnSe: Native topological crystalline insulators. <i>Physical Review B</i> , 2013 , 88,	3.3	79
50	Structural, electronic, and ferroelectric properties of compressed CdPbO ₃ polymorphs. <i>Inorganic Chemistry</i> , 2013 , 52, 1032-9	5.1	14
49	Dual behavior of excess electrons in rutile TiO ₂ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 199-203	2.5	126
48	Tuning the vertical location of helical surface states in topological insulator heterostructures via dual-proximity effects. <i>Scientific Reports</i> , 2013 , 3, 1233	4.9	34
47	Water Adsorption at the Tetrahedral Titania Surface Layer of SrTiO(110)-(4 × 4). <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26060-26069	3.8	29
46	Structural transitions and transport-half-metallic ferromagnetism in LaMnO ₃ at elevated pressure. <i>Physical Review B</i> , 2012 , 85,	3.3	33
45	Role of self-trapping in luminescence and p-type conductivity of wide-band-gap oxides. <i>Physical Review B</i> , 2012 , 85,	3.3	328
44	Exceptionally large room-temperature ferroelectric polarization in the PbNiO ₃ multiferroic nickelate: First-principles study. <i>Physical Review B</i> , 2012 , 86,	3.3	34
43	Screened hybrid functional applied to 3d0-3d8 transition-metal perovskites LaMO ₃ (M = Sc, Ti): Influence of the exchange mixing parameter on the structural, electronic, and magnetic properties. <i>Physical Review B</i> , 2012 , 86,	3.3	124
42	Maximally localized Wannier functions in LaMnO ₃ 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> , 2012 , 24, 235602	1.8	88
41	Low Dimensionality and Epitaxial Stabilization in Metal-Supported Oxide Nanostructures: Mn _x O _y on Pd(100) Mn _x O _y . <i>Springer Series in Materials Science</i> , 2012 , 209-237	0.9	
40	Tailor-made ultrathin manganese oxide nanostripes: 'magic widths' on Pd(1 × 1 N) terraces. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 042001	1.8	5
39	Dirac semimetal and topological phase transitions in A ₃ Bi (A=Na, K, Rb). <i>Physical Review B</i> , 2012 , 85,	3.3	1244
38	Comment on "Cleavage surface of the BaFe ₂ As ₂ and Fe ₃ Se ₅ Te ₃ superconductors: A combined STM plus LEED study" <i>Physical Review B</i> , 2012 , 86,	3.3	6
37	Hardness of T-carbon: Density functional theory calculations. <i>Physical Review B</i> , 2011 , 84,	3.3	120
36	Exceptionally strong magnetism in the 4d perovskites RTcO ₃ (R=Ca, Sr, Ba). <i>Physical Review B</i> , 2011 , 83,	3.3	39

35	Exchange interactions and magnetic phases of transition metal oxides: Benchmarking advanced ab initio methods. <i>Physical Review B</i> , 2011 , 84,	3-3	53
34	Electronic, optical, and mechanical properties of superhard cold-compressed phases of carbon. <i>Applied Physics Letters</i> , 2011 , 99, 031901	3-4	62
33	Thickness dependent structural and electronic properties of CuO grown on SrTiO ₃ (100): a hybrid density functional theory study. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 045004	1-8	7
32	Strain-driven onset of nontrivial topological insulating states in Zintl Sr ₂ X compounds (X=Pb, Sn). <i>Physical Review B</i> , 2011 , 84,	3-3	29
31	First-principles investigation of BaFe ₂ As ₂ (001). <i>Physical Review B</i> , 2010 , 82,	3-3	7
30	Structural, vibrational, and quasiparticle properties of the Peierls semiconductor BaBiO ₃ : A hybrid functional and self-consistent GW+vertex-corrections study. <i>Physical Review B</i> , 2010 , 81,	3-3	66
29	Phase transitions driven by competing interactions in low-dimensional systems. <i>Europhysics Letters</i> , 2010 , 92, 26004	1-6	11
28	Polymeric forms of carbon in dense lithium carbide. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 2922018	1-8	18
27	Electronically driven phase transitions in a quasi-one-dimensional adsorbate system. <i>European Physical Journal B</i> , 2010 , 75, 15-22	1-2	6
26	Strained c(4 × 2) CoO(1 0 0)-like monolayer on Pd(1 0 0): Experiment and theory. <i>Surface Science</i> , 2010 , 604, 529-534	1-8	26
25	Structural and vibrational properties of two-dimensional Mn _x O _y layers on Pd(100): Experiments and density functional theory calculations. <i>Physical Review B</i> , 2009 , 79,	3-3	36
24	Two-dimensional manganese oxide nanolayers on Pd(100): the surface phase diagram. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 134008	1-8	30
23	Halogen-induced corrosion of platinum. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2827-9	16-4	20
22	Interplay between magnetic, electronic, and vibrational effects in monolayer Mn ₃ O ₄ grown on Pd(100). <i>Journal of Chemical Physics</i> , 2009 , 130, 124707	3-9	28
21	Hybrid density-functional calculation of the electronic and magnetic structures of tetragonal CuO. <i>Physical Review B</i> , 2009 , 80,	3-3	24
20	Polaronic hole trapping in doped BaBiO ₃ . <i>Physical Review Letters</i> , 2009 , 102, 256402	7-4	77
19	Superconducting properties of MgB ₂ from first principles. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 456, 45-53	1-3	37
18	Ab initio study of the structural, electronic, and magnetic properties of MnO(100) and MnO(110). <i>Physical Review B</i> , 2007 , 75,	3-3	40

17	Formation of Mn ₃ O ₄ (001) on MnO(001): Surface and interface structural stability. <i>Physical Review B</i> , 2007 , 76,	3-3	53
16	Epitaxial stabilization of MnO(111) overlayers on a Pd(100) surface. <i>Physical Review B</i> , 2007 , 75,	3-3	44
15	Ground-state properties of multivalent manganese oxides: Density functional and hybrid density functional calculations. <i>Physical Review B</i> , 2007 , 75,	3-3	259
14	Density functional study of the polar MnO(111) surface. <i>Physical Review B</i> , 2006 , 73,	3-3	59
13	Superconductivity in lithium, potassium, and aluminum under extreme pressure: a first-principles study. <i>Physical Review Letters</i> , 2006 , 96, 047003	7-4	138
12	Ab initio prediction of pressure-induced superconductivity in potassium. <i>Physical Review B</i> , 2006 , 73,	3-3	37
11	Density functional theory study of MnO by a hybrid functional approach. <i>Physical Review B</i> , 2005 , 72,	3-3	147
10	Ab-initio Computation of Superconducting Properties of Elemental Superconductors and MgB ₂ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2005 , 18, 649-652		1
9	Chemical-pressure-induced modifications on the magnetic and electronic properties of Ba _{1-x} Sr _x VS ₃ . <i>Europhysics Letters</i> , 2005 , 71, 952-958	1.6	2
8	Superconducting properties of MgB ₂ from first principles. <i>Physical Review Letters</i> , 2005 , 94, 037004	7-4	122
7	(3 \times 3)-Br/Pt(110) structure and the charge-density-wave-assisted c(2 \times 2) to (3 \times 3) phase transition. <i>Physical Review B</i> , 2004 , 69,	3-3	23
6	Role of electronic correlations on the ground-state properties and on the pressure-induced metal-insulator transition in BaVS ₃ . <i>Physical Review B</i> , 2004 , 70,	3-3	7
5	Electronic structure of PbFe _{1/2} Ta _{1/2} O ₃ : Crystallographic ordering and magnetic properties. <i>Physical Review B</i> , 2004 , 69,	3-3	60
4	Chemical Pressure-Induced Ferromagnetism and Stabilization of the Metallic State in Ba _{1-x} Sr _x VS ₃ . <i>International Journal of Modern Physics B</i> , 2003 , 17, 3503-3508	1.1	10
3	Structural, transport, and electronic properties of a layered dichalcogenide AuVS ₂ with semimetallic properties. <i>Physical Review B</i> , 2002 , 66,	3-3	5
2	Structure of the c(2 \times 2)-Br/Pt(110) surface. <i>Physical Review B</i> , 2002 , 65,	3-3	40
1	Structural and electronic properties of Hg _{1-x} MoyBa ₂ CuO ₄ + δ . <i>Physical Review B</i> , 2000 , 62, 9163-9171	3-3	2