

# Jaejun Yu

## List of Publications by Year in descending order

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119  
papers

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119  
docs citations

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times ranked

7497  
citing authors

#	ARTICLE	IF	CITATIONS
1	State Induced by Relativistic Spin-Orbit Coupling in Physical Review Letters, 2008, 101, 076402.	2.9	1,332
2	Electronically driven instabilities and superconductivity in the layered $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$ perovskites. Physical Review Letters, 1987, 58, 1035-1037.	2.9	544
3	Magnetic ordering at the edges of graphitic fragments: Magnetic tail interactions between the edge-localized states. Physical Review B, 2005, 72, .	1.1	487
4	Electronic structure and properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ , a low dimensional, low density of states superconductor. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 122, 198-202.	0.9	485
5	Electronic structure and properties of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ , the third high- $T_c$ superconductor. Physica C: Superconductivity and Its Applications, 1988, 152, 251-258.	0.6	343
6	Bonds, bands, charge transfer excitations and superconductivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ . Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 122, 203-208.	0.9	340
7	Physical properties of transparent perovskite oxides $(\text{Ba},\text{La})\text{SnO}_3$ with high electrical mobility at room temperature. Physical Review B, 2012, 86, .	1.1	264
8	Synthesis, Characterization, and Self-Assembly of Pencil-Shaped $\text{CoO}$ Nanorods. Journal of the American Chemical Society, 2006, 128, 9753-9760.	6.6	201
9	Orbital-Angular-Momentum Based Origin of Rashba-Type Surface Band Splitting. Physical Review Letters, 2011, 107, 156803.	2.9	162
10	Effective Control of the Charge and Magnetic States of Transition-Metal Atoms on Single-Layer Boron Nitride. Physical Review Letters, 2012, 108, 206802.	2.9	135
11	Determination of electronic band structures of $\text{CaMnO}_3$ and $\text{LaMnO}_3$ using optical-conductivity analyses. Physical Review B, 1997, 55, 15489-15493.	1.1	134
12	Electronic structure of $\text{Nd-Ce-Cu-O}$ , a Fermi liquid superconductor. Physica C: Superconductivity and Its Applications, 1989, 157, 571-574.	0.6	126
13	$O(N)$ LDA+U electronic structure calculation method based on the nonorthogonal pseudoatomic orbital basis. Physical Review B, 2006, 73, .	1.1	118
14	Interaction and ordering of vacancy defects in $\text{NiO}$ . Physical Review B, 2008, 77, .	1.1	118
15	Anisotropic exchange interactions of spin-orbit-integrated states in $\text{SrTi}_2\text{O}_7$ . Physical Review B, 2009, 80, .	1.1	117
16	Electronic structure and properties of the high- $T_c$ superconductors: $\text{Ti}_2\text{Ba}_2\text{CaCu}_2\text{O}_8$ and $\text{Ti}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ . Physica C: Superconductivity and Its Applications, 1988, 152, 273-282.	0.6	116
17	All-perovskite transparent high mobility field effect using epitaxial $\text{BaSnO}_3$ and $\text{LaInO}_3$ . APL Materials, 2015, 3, .	2.2	107
18	Dominant role of the 2D Van Hove singularity on the Fermi surface and generalized susceptibility of the quasi-2D superconductor $\text{La}_{2-x}\text{M}_x\text{CuO}_4$ ( $M = \text{Sr}, \text{Ba}, \delta \in \{ \}$ ). Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 120, 489-493.	0.9	104

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19	Origin of oxygen vacancies and charge carriers induced in the $n$ -type interface of a $\text{LaAlO}_3$ -type overlayer on $\text{SrTiO}_3$ . Physical Review B, 1998, 57, R11043-R11046.	1.1	99
20	Midgap states of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ : Doping-dependent optical-conductivity studies. Physical Review B, 1998, 57, R11043-R11046.	1.1	98
21	Passivated co-doping approach to bandgap narrowing of titanium dioxide with enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2017, 200, 1-9.	10.8	90
22	Topological Quantum Phase Transition in $5d$ Transition Metal Oxide $\text{Na}_2\text{IrO}_6$ . Physical Review Letters, 2012, 108, 106401.	2.9	87
23	Local density theory of X-ray and photoemission from $\text{YBa}_2\text{Cu}_3\text{O}_7$ : The high $T_c$ superconductor. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 124, 469-473.	0.9	81
24	Electron and Orbital Correlations in $\text{Ca}_2\text{RuO}_4$ Probed by Optical Spectroscopy. Physical Review Letters, 2002, 89, 257402.	2.9	77
25	Electronic structures of hexagonal $\text{RMnO}_3$ ( $R=\text{Gd, Tb, Dy, and Ho}$ ) thin films: Optical spectroscopy and first-principles calculations. Physical Review B, 2008, 77, .	1.1	75
26	Magnetic ordering and exchange interactions in multiferroic $\text{GaFeO}_3$ . Physical Review B, 2007, 75, .	1.1	74
27	Spin and orbital angular momentum structure of $\text{Cu}(111)$ and $\text{Au}(111)$ surface states. Physical Review B, 2012, 85, .	1.1	67
28	Electronic structure and properties of superconducting $\text{LiTi}_2\text{O}_4$ . Physical Review B, 1988, 38, 11352-11357.	1.1	64
29	Comparison of localized basis and plane-wave basis for density-functional calculations of organic molecules on metals. Physical Review B, 2007, 75, .	1.1	64
30	Electronic structure and properties of $\text{YBa}_2\text{Cu}_4\text{O}_8$ . Physica C: Superconductivity and Its Applications, 1991, 172, 467-476.	0.6	63
31	Origin of electric-field gradients in high-temperature superconductors: $\text{YBa}_2\text{Cu}_3\text{O}_7$ . Physical Review B, 1991, 43, 532-541.	1.1	61
32	Dopant-site-dependent scattering by dislocations in epitaxial films of perovskite semiconductor $\text{BaSnO}_3$ . APL Materials, 2014, 2, .	2.2	61
33	Calculated local density X-ray and photoemission spectra for superconducting $\text{La}_2\text{MxCuO}_4$ : Localization of Cu-3d. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 124, 463-468.	0.9	60
34	Electronic structure, magnetic interactions, and the role of ligands in $\text{Mn}(n=4,12)$ single-molecule magnets. Physical Review B, 2004, 70, .	1.1	58
35	Calculated photoemission and x-ray emission spectra of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ . Physical Review B, 1988, 38, 5098-5101.	1.1	54
36	Hole states in $\text{CuO}_2$ planes and Cu-O chains of $\text{YBa}_2\text{Cu}_3\text{O}_7$ and $\text{YBa}_2\text{Cu}_4\text{O}_8$ probed by soft-x-ray absorption spectroscopy. Physical Review B, 1992, 45, 2581-2584.	1.1	54

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37	Ab initio study of pentacene on Au(001) surface. Surface Science, 2005, 589, 8-18.	0.8	54
38	Missingxy-Band Fermi Surface in4dTransition-Metal OxideSr2RhO4: Effect of the Octahedra Rotation on the Electronic Structure. Physical Review Letters, 2006, 97, 106401.	2.9	50
39	Electronic structure and properties of quasi-two-dimensional layered superconducting perovskites:La2âˆ”xMxCuO4(M=Ba,Sr,A€€). Physical Review B, 1987, 36, 7111-7114.	1.1	49
40	Pseudogap formation in 4 d transition metal oxide BaRuO 3. Europhysics Letters, 2001, 55, 280-286.	0.7	48
41	Indications of strong neutral impurity scattering in Ba(Sn,Sb)O<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math> single crystals. Physical Review B, 2013, 88, .	1.1	48
42	Normal state transport properties of YBa2Cu3O7 and YBa2Cu3O8 superconductors; predictions and comparison with experiments. Physica C: Superconductivity and Its Applications, 1991, 176, 159-169.	0.6	45
43	Heat-Induced Transformation of Nanodiamond into a Tube-Shaped Fullerene: A Molecular Dynamics Simulation. Physical Review Letters, 2003, 91, 265701.	2.9	45
44	Effect of Orbital Rotation and Mixing on the Optical Properties of OrthorhombicRMnO3(R=La, Pr, Nd,) Tj ETQq0 0 0,rgbT /Overlock 10 T	2.9	45
45	Ferromagnetism at the edges of the stacked graphitic fragments: an ab initio study. Chemical Physics Letters, 2004, 398, 207-211.	1.2	36
46	Scaling Behavior of Spectral Weight Changes in Perovskite ManganitesLa0.7âˆ”yPryCa0.3MnO3. Physical Review Letters, 1998, 81, 4983-4986.	2.9	35
47	Strain-induced topological insulator phase and effective magnetic interactions in Li2IrO3. Physical Review B, 2013, 87, .	1.1	35
48	Enhanced upper critical fields in a new quasi-one-dimensional superconductor Nb<sub>2</sub>Pd<sub><i>x</i></sub>Se<sub>5</sub>. New Journal of Physics, 2013, 15, 123031.	1.2	35
49	Anomalous spin susceptibility and magnetic polaron formation in the double-exchange systems. Physical Review B, 2000, 61, 9501-9505.	1.1	34
50	Effect of Coulomb Interactions on the Electronic and Magnetic Properties of Two-Dimensional CrSiTe3 and CrGeTe3 Materials. Journal of Electronic Materials, 2019, 48, 1441-1445.	1.0	34
51	Transport properties of high-Tcsuperconductors: Fermi-liquid local-density electronic-structure predictions. Physical Review B, 1990, 42, 6238-6243.	1.1	33
52	Tunable magnetic topological insulating phases in monolayer <math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Cr</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2018, 98, .	1.1	33
53	Energetics of large carbon clusters:â€€,â€€,Crossover from fullerenes to nanotubes. Physical Review B, 2002, 65, .	1.1	32
54	Formation of carbon nanotube semiconductor-metal intramolecular junctions by self-assembly of vacancy defects. Physical Review B, 2007, 76, .	1.1	32

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55	Optical investigations of the charge gap in orbital-ordered $\text{La}_{1/2}\text{Sr}_{3/2}\text{MnO}_4$ . <i>Physical Review B</i> , 2000, 61, 6902-6906.	1.1	30
56	Band gap sensitivity of bromine adsorption at carbon nanotubes. <i>Chemical Physics Letters</i> , 2005, 403, 135-139.	1.2	30
57	Coulomb correlated band structure and Fermi surfaces of high $T_c$ superconductors. <i>Journal of Physics and Chemistry of Solids</i> , 1991, 52, 1351-1362.	1.9	29
58	Calculated photoemission, inverse photoemission, and x-ray emission spectra of high- $T_c$ superconductors: $\text{Ti}_2\text{Ba}_2\text{CaCu}_2\text{O}_8$ and $\text{Ti}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ . <i>Physical Review B</i> , 1989, 39, 2894-2897.	1.1	28
59	High- $k$ perovskite gate oxide $\text{BaHfO}_3$ . <i>APL Materials</i> , 2017, 5, .	2.2	28
60	Role of oxygen vacancy in the spin-state change and magnetic ordering in $\text{SrCoO}_{3-x}$ . <i>Physical Review B</i> , 2018, 98, .	1.1	28
61	Spin triplet excitations for a valence bond solid on the kagome lattice. <i>Physical Review B</i> , 2008, 77, .	1.1	23
62	Large in-plane deformation of $\text{RuO}_6$ octahedron and ferromagnetism of bulk $\text{SrRuO}_3$ . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 465601.	0.7	23
63	Catalytic decomposition of acetylene on $\text{Fe}(001)$ : A first-principles study. <i>Physical Review B</i> , 2002, 66, .	1.1	22
64	A Room-Temperature Ferroelectric Ferromagnet in a 1D Tetrahedral Chain Network. <i>Advanced Materials</i> , 2019, 31, e1808104.	11.1	22
65	Pressure-induced phonon softening and electronic topological transition in $\text{HgBa}_2\text{CuO}_4$ . <i>Physical Review B</i> , 1996, 54, 1313-1319.	1.1	21
66	Double-exchange model with background superexchange interactions: Phase diagrams of $\text{La}_{1-x}\text{MnO}_3$ manganites. <i>Physical Review B</i> , 1998, 58, 11123-11126.	1.1	21
67	First-principles study of ultrathin ( $2\text{\AA}$ -2) Gd nanowires encapsulated in carbon nanotubes. <i>Journal of Chemical Physics</i> , 2010, 132, 054701.	1.2	19
68	Orientations of oxygen hole states and ionicity of bismuth atoms in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ . <i>Physical Review B</i> , 1994, 50, 6370-6374.	1.1	17
69	Raman modes of the apical oxygen in mercury-based superconductors. <i>Physical Review B</i> , 1995, 52, 15078-15081.	1.1	17
70	Origin of reduced polarizations in short-period $\text{BaTiO}_3/\text{SrTiO}_3$ ferroelectric superlattices. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	17
71	Polarization screening and induced carrier density at the interface of $\text{LaAlO}_3$ overlayer on $\text{SrTiO}_3(001)$ . <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	17
72	Chern insulator with a nearly flat band in the metal-organic-framework-based Kagome lattice. <i>Scientific Reports</i> , 2019, 9, 13807.	1.6	17

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73	Two-photon momentum density in $\text{La}_2\text{xSrxCuO}_4$ and $\text{Nd}_2\text{xCexCuO}_4$ . Physical Review B, 1992, 46, 390-397.	1.1	16
74	Micro-Raman study of the role of pressure in mercury-based superconductors. Physical Review B, 1995, 51, 644-647.	1.1	16
75	First-principles effective Hamiltonian for ferroelectric polarization in $\text{BaTiO}_3/\text{SrTiO}_3$ superlattices. Journal of Applied Physics, 2008, 103, 124106.	1.1	15
76	Possible origins of defect-induced magnetic ordering in carbon-irradiated graphite. Physical Review B, 2009, 79, .	1.1	15
77	Impact of vacancy clusters on characteristic resistance change of nonstoichiometric strontium titanate nano-film. Applied Physics Letters, 2014, 104, .	1.5	15
78	Suppression of ferromagnetic ordering in doped manganites: Effects of the superexchange interaction. Physical Review B, 2000, 61, 428-431.	1.1	14
79	Structure and magnetism of small Gd and Fe nanoclusters: $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ altimg="si6.gif"} \text{ display="inline"} \text{ overflow="scroll"} \rangle \langle \text{mml:mstyle} \text{ mathvariant="normal"} \rangle \langle \text{mml:mi} \rangle \text{LDA} \langle \text{mml:mi} \rangle \langle \text{mml:mstyle} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{U} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ calculations. Solid State Communications, 2000, 119, 2050-2060.	0.9	14
80	Tunable charge donation and spin polarization of metal adsorbates on graphene using an applied electric field. Physical Review B, 2010, 82, .	1.1	13
81	Mapping Atomic Contact between Pentacene and a Au Surface using Scanning Tunneling Spectroscopy. Nano Letters, 2010, 10, 996-999.	4.5	13
82	Half-metallic ferromagnetism and metal-insulator transition in Sn-doped $\text{SrRuO}_3$ perovskite oxides. Journal of Magnetism and Magnetic Materials, 2018, 460, 54-60.	1.0	13
83	Theoretical two-particle momentum density in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ . Journal of Physics and Chemistry of Solids, 1991, 52, 1503-1512.	1.9	12
84	Competition between structural distortion and magnetic moment formation in fullerene $\text{C}_{20}$ . Journal of Chemical Physics, 2009, 130, 184107.	1.2	12
85	Magnetic interactions in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{PdCrO} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle$ and their effects on its magnetic structure. Physical Review B, 2018, 98, .	1.2	12
86	Electronic structure and properties of vacancy-ordered $\text{YBa}_2\text{Cu}_3\text{O}_{6.5}$ . Physica C: Superconductivity and Its Applications, 1993, 214, 335-344.	0.6	11
87	Dimensional crossover driven by magnetic ordering in optical conductivity of $\text{Pr}_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ . Physical Review B, 2000, 61, 14656-14659.	1.1	11
88	Enhanced Charge Gap in the Bilayer Manganite $\text{La}_{2-x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$ near $x=0.4$ . Physical Review Letters, 2007, 98, 187201.	2.9	11
89	Modulation of electron carrier density at the n-type $\text{LaAlO}_3/\text{SrTiO}_3$ interface by water adsorption. Journal of Physics Condensed Matter, 2013, 25, 265004.	0.7	11
90	Doped valence-bond solid and superconductivity on the Shastry-Sutherland lattice. Physical Review B, 2008, 77, .	1.1	10

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91	Collinear and noncollinear spin ground state of wurtzite CoO. <i>Physical Review B</i> , 2013, 87, .	1.1	10
92	Charge and magnetic states of rutile TiO <sub>2</sub> doped with Cr ions. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 146003.	0.7	10
93	Magnetic states and intervalence charge transfer of Ti and Fe defects in $\hat{\pm}$ -Al <sub>2</sub> O <sub>3</sub> : The origin of the blue in sapphire. <i>Acta Materialia</i> , 2018, 143, 248-256.	3.8	10
94	Band gap narrowing of TiO <sub>2</sub> nanoparticles: A passivated Co-doping approach for enhanced photocatalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 162, 110503.	1.9	9
95	Electronic band structure of high T <sub>c</sub> Cu-oxide superconductors: Comparison of predictions with experiments. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1994, 66, 281-301.	0.8	7
96	Photonic crystal alloys: a new twist in controlling photonic band structure properties. <i>Optics Express</i> , 2008, 16, 6579.	1.7	7
97	<i>Ab Initio</i> Study of Elastic Properties of High-Pressure Polymorphs of CO <sub>2</sub> Phases II and V. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23152-23164.	1.5	7
98	Coulomb correlated electronic band structure of cuprate superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 173, 274-284.	0.6	6
99	Induced vortex dynamics in parallel Josephson junction arrays. <i>Physical Review B</i> , 1997, 55, 1231-1235.	1.1	6
100	Interface electronic structure, two-dimensional metallicity, and possible interface superconductivity in $CuClSi$ superlattices. <i>Physical Review B</i> , 2007, 76, .	1.1	6
101	Graphene analogue in (111)-oriented BaBiO <sub>3</sub> bilayer heterostructures for topological electronics. <i>Scientific Reports</i> , 2018, 8, 555.	1.6	6
102	Inevitable high density of oxygen vacancies at the surface of polar/nonpolar perovskite heterostructures LaAlO <sub>3</sub> /SrTiO <sub>3</sub> . <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	6
103	Chirality-induced spin texture switching in twisted bilayer graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	5
104	Effect of on-site Coulomb interactions on the electronic structure and magnetic property of Gd <sub>2</sub> cluster. <i>Chemical Physics Letters</i> , 2010, 492, 89-92.	1.2	4
105	Superstructures of Se adsorbates on Au(111): Scanning tunneling microscopy and spectroscopy study. <i>Surface Science</i> , 2019, 685, 19-23.	0.8	4
106	Dynamical properties of high-temperature-superconductor granular bridge junctions: Inhomogeneous Josephson-junction-array model. <i>Physical Review B</i> , 1996, 53, 3578-3584.	1.1	3
107	Long-range hopping correlation and colossal magnetoresistance in doped manganites. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 5453-5462.	0.7	3
108	Multiferroic Materials: A Room-Temperature Ferroelectric Ferromagnet in a 1D Tetrahedral Chain Network (Adv. Mater. 24/2019). <i>Advanced Materials</i> , 2019, 31, 1970173.	11.1	3

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109	Band gap and mobility of epitaxial perovskite $\text{BaSn}_{1-x}\text{Hf}_x\text{O}_3$ thin films. <i>Physical Review Materials</i> , 2018, 2, .	0.9	3
110	Electronic Structure and Insulating Nature of the $(\text{LaTiO}_3)_2/(\text{LaAlO}_3)_2$ Superlattice. <i>Journal of the Korean Physical Society</i> , 2008, 53, 1074-1078.	0.3	3
111	Structure and disorder in $\text{MgSiO}_3$ glasses above megabar pressures via nuclear magnetic resonance: DFT calculations. <i>Journal of the American Ceramic Society</i> , 2022, 105, 5151-5166.	1.9	3
112	Electronic structure, charge transfer excitations, and high-temperature superconducting oxides (invited). <i>Journal of Applied Physics</i> , 1988, 63, 4220-4225.	1.1	2
113	Optical properties of $\text{BaRuO}_3$ : observation of pseudogap formation. <i>Current Applied Physics</i> , 2001, 1, 163-167.	1.1	2
114	A spin-dependent local moment approach to the Anderson impurity model. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 456203.	0.7	2
115	Two-dimensional electron gas generated by La-doping at $\text{SrTiO}_3(001)$ surface: A first-principles study. <i>AIP Advances</i> , 2013, 3, 062116.	0.6	2
116	Identification of F impurities in F-doped ZnO by synchrotron X-ray absorption near edge structures. <i>Journal of Applied Physics</i> , 2018, 123, 161528.	1.1	1
117	All-Electron Local Density Theory of Electronic Structure and Superconductivity in $\text{YBa}_2\text{Cu}_3\text{O}_7$ and $\text{YBa}_2\text{Cu}_3\text{O}_6$ . <i>Japanese Journal of Applied Physics</i> , 1987, 26, 1153.	0.8	1
118	Current-voltage characteristics and Josephson ac effects of granular HTSC $\text{Y}_1\text{Ba}_2\text{Cu}_3\text{O}_y$ bridges. <i>Solid State Communications</i> , 1995, 94, 45-48.	0.9	0
119	Current Status of Women Physicists in Korea. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0