

Ritsuko Eguchi

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Effective Field-Effect Mobility in Thin-Film and Single-Crystal Transistors for Revisiting Various Phenacene-Type Molecules. ACS Omega, 2022, 7, 5495-5501.	1.6	2
2	Pressure dependence of superconductivity in alkali-Bi compounds KBi_2 and RbBi_2 . Physical Chemistry Chemical Physics, 2022, 24, 7185-7194.	1.3	4
3	Superconducting Properties of PdPtBi_2 over a Wide Pressure Range. Journal of Physical Chemistry C, 2022, 126, 9948-9955.	1.5	2
4	Superconductivity in topological insulator $\hat{1}^2\text{-PdBi}_2$ under pressure. Journal of Physics Condensed Matter, 2021, 33, 135702.	0.7	2
5	Superconducting properties of BaBi_3 at ambient and high pressures. Physical Chemistry Chemical Physics, 2021, 23, 23014-23023.	1.3	3
6	Emergence of a Pressure-Driven Superconducting Phase in $\text{Ba}_{0.77}\text{Na}_{0.23}\text{Ti}_2\text{Sb}_2\text{O}$. Inorganic Chemistry, 2021, 60, 3585-3592.	1.9	2
7	Superconductivity of topological insulator Sb_2Te_3 under pressure. Journal of Physics Condensed Matter, 2021, 33, 485704.	0.7	5
8	Pressure Dependence of Superconducting Behavior of 4d and 5d Transition Metal Compounds CaRh_2 and CaIr_2 . Journal of Physical Chemistry C, 2021, 125, 20617-20625.	1.5	1
9	Photochemical synthesis and device application of acene-phenacene hybrid molecules, dibenzo[<i>a,h</i>]phenacenes ($n = 5-7$). Chemical Communications, 2021, 57, 4768-4771.	2.2	4
10	Fabrication of ring oscillators using organic molecules of phenacene and perylenedicarboximide. RSC Advances, 2021, 11, 7538-7551.	1.7	4
11	Band Engineering of Bilayer Graphene through Combination of Direct Electron Transfer and Electrostatic Gating. Journal of Physical Chemistry C, 2020, 124, 24001-24008.	1.5	1
12	Superconducting behavior of $\text{BaTi}_2\text{Bi}_2\text{O}$ and its pressure dependence. Physical Chemistry Chemical Physics, 2020, 22, 23315-23322.	1.3	4
13	A new protocol for the preparation of superconducting KBi_2 . RSC Advances, 2020, 10, 26686-26692.	1.7	1
14	Structure and superconducting properties of multiple phases of $(\text{NH}_3)_y\text{AE}_x\text{FeSe}$ (AE: Ca, Sr and Ba). Journal of Physics Condensed Matter, 2020, 32, 395704.	0.7	2
15	Inhomogeneous superconductivity in thin crystals of FeSe_1Te_x ($x = 1.0, 0.95$). Tj ETQq1 1 0.784314 rgBT	0.8	2
16	Superconducting behavior of a new metal iridate compound, SrIr_2 , under pressure. Journal of Physics Condensed Matter, 2020, 32, 025704.	0.7	4
17	Superconductivity in $\text{Bi}_2\text{Sb}_2\text{Te}_3$ ($x = 1.0$ and $y = 2.0$) under pressure. Journal of Physics Condensed Matter, 2020, 32, 05704.	0.7	8
18	Pressure-induced superconductivity in $\text{Bi}_2\text{Sb}_2\text{Te}_3$. $\text{B}_{i_2}\text{S}_{b_2}\text{T}_{e_3}$	0.7	8

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19	Fabrication of flexible high-performance organic field-effect transistors using phenacene molecules and their application toward flexible CMOS inverters. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6022-6033.	2.7	6
20	Graphite and Intercalated Compound Superconductors: Atomic and Electronic Structures. , 2019, , 1-28.		0
21	Synthesis of the extended phenacene molecules, [10]phenacene and [11]phenacene, and their performance in a field-effect transistor. <i>Scientific Reports</i> , 2019, 9, 4009.	1.6	21
22	Superconducting properties of $(\text{NH}_3)_y \text{Li}_x \text{FeSe}_0.5\text{Te}_0.5$ under pressure. <i>New Journal of Physics</i> , 2019, 21, 113010.	1.2	0
23	Preparation and characterization of superconducting $\text{Ba}_{1-x}\text{Ti}_x\text{Sb}_2\text{O}_8$, and its pressure dependence of superconductivity. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 110603.	0.8	7
24	Preparation and characterization of a new metal-intercalated graphite superconductor. <i>Materials Research Express</i> , 2019, 6, 016003.	0.8	2
25	Quantum valence criticality in a correlated metal. <i>Science Advances</i> , 2018, 4, eaao3547.	4.7	28
26	Synthesis and characterization of carbazolo[2,1-a]carbazole in thin film and single crystal field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7020-7027.	2.7	8
27	Difference in gating and doping effects on the band gap in bilayer graphene. <i>Scientific Reports</i> , 2017, 7, 11322.	1.6	13
28	Synthesis and transistor application of the extremely extended phenacene molecule, [9]phenacene. <i>Scientific Reports</i> , 2016, 6, 21008.	1.6	46
29	Correlation of superconductivity with crystal structure in $(\text{NH}_3)_y\text{Cs}_x\text{FeSe}$. <i>Physical Review B</i> , 2016, 93, .	1.1	10
30	Photoelectron Holographic Atomic Arrangement Imaging of Cleaved Bimetal-intercalated Graphite Superconductor Surface. <i>Scientific Reports</i> , 2016, 6, 36258.	1.6	25
31	Superconductivity in $(\text{NH}_3)_y\text{Na}_x\text{FeSe}_0.5\text{Te}_0.5$. <i>Physical Review B</i> , 2016, 94, .	1.1	9
32	Emergence of superconductivity in $(\text{NH}_3)_y\text{M}_x\text{MoSe}_2$ (M: Li, Na and K). <i>Scientific Reports</i> , 2016, 6, 29292.	1.6	10
33	Recent progress on carbon-based superconductors. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 334001.	0.7	38
34	Temperature Dependence of Magnetically Active Charge Excitations in Magnetite across the Verwey Transition. <i>Physical Review Letters</i> , 2015, 115, 256405.	2.9	30
35	Carrier Accumulation in Graphene with Electron Donor/Acceptor Molecules. <i>Advanced Electronic Materials</i> , 2015, 1, 1500073.	2.6	12
36	Electronic Structure Evolution across the Peierls Metal-Insulator Transition in a Correlated Ferromagnet. <i>Physical Review X</i> , 2015, 5, .	2.8	10

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37	Time-resolved HAXPES at SACLA: probe and pump pulse-induced space-charge effects. <i>New Journal of Physics</i> , 2014, 16, 123045.	1.2	51
38	Transistor Application of Phenacene Molecules and Their Characteristics. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3806-3819.	1.0	68
39	Transistor Application of Phenacene Molecules and Their Characteristics (<i>Eur. J. Inorg. Chem.</i> 24/2014). <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, .	1.0	1
40	Ultrafast photoinduced transition of an insulating VO_2 thin film into a nonrutile metallic state. <i>Physical Review B</i> , 2014, 89, .	1.1	19
41	Electronic structure of M_2FeSe ($\text{M} = \text{V}, \text{Cr}$) thin films. <i>Physical Review B</i> , 2014, 89, .	1.1	14
42	Electronic structure of fullerene derivatives in organic photovoltaics. <i>Organic Electronics</i> , 2014, 15, 2912-2921.	1.4	33
43	Electronic structure of CeCuAs_2 . <i>Physical Review B</i> , 2014, 89, .	1.1	10
44	Systematic Control of Hole-Injection Barrier Height with Electron Acceptors in [7]phenacene Single-Crystal Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5284-5293.	1.5	19
45	Electron Dynamics Probed by Time-Resolved Hard X-ray Photoelectron Spectroscopy. <i>Transactions of the Materials Research Society of Japan</i> , 2014, 39, 469-473.	0.2	7
46	Transistor application of alkyl-substituted picene. <i>Scientific Reports</i> , 2014, 4, 5048.	1.6	58
47	An Extended Phenacene-type Molecule, [8]Phenacene: Synthesis and Transistor Application. <i>Scientific Reports</i> , 2014, 4, 5330.	1.6	43
48	Development of a single-shot CCD-based data acquisition system for time-resolved X-ray photoelectron spectroscopy at an X-ray free-electron laser facility. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 183-192.	1.0	11
49	Phenanthro[1,2-b:8,7-b']dithiophene: a new picene-type molecule for transistor applications. <i>RSC Advances</i> , 2013, 3, 19341.	1.7	28
50	Parity Effects in Few-Layer Graphene. <i>Nano Letters</i> , 2013, 13, 5153-5158.	4.5	10
51	Fabrication of high performance/highly functional field-effect transistor devices based on [6]phenacene thin films. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20611.	1.3	30
52	Edge-Dependent Transport Properties in Graphene. <i>Nano Letters</i> , 2013, 13, 1126-1130.	4.5	16
53	Electronic structure and surface morphology of [6,6]-phenyl-C71-butyric acid methyl ester films. <i>Organic Electronics</i> , 2013, 14, 3222-3227.	1.4	9
54	Fabrication of single crystal field-effect transistors with phenacene-type molecules and their excellent transistor characteristics. <i>Organic Electronics</i> , 2013, 14, 1673-1682.	1.4	28

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55	Observation of zero resistivity in K-doped picene. <i>Physical Review B</i> , 2013, 87, .	1.1	33
56	Electric double-layer capacitance between an ionic liquid and few-layer graphene. <i>Scientific Reports</i> , 2013, 3, 1595.	1.6	138
57	Quantifying covalency and metallicity in correlated compounds undergoing metal-insulator transitions. <i>Physical Review B</i> , 2013, 87, .	1.1	3
58	Superconductivity in (NH ₃)yCs _{0.4} FeSe. <i>Physical Review B</i> , 2013, 88, .	1.1	50
59	Electric-double-layer transistors with thin crystals of FeSe _{1-x} Te _x (x=0.9 and 1.0). <i>Applied Physics Letters</i> , 2013, 102, .	1.5	7
60	Characteristics of [6]phenacene thin film field-effect transistor. <i>Applied Physics Letters</i> , 2012, 101, 083301.	1.5	43
61	Photoemission Evidence for Valence Fluctuations and Kondo Resonance in YbAl ₂ . <i>Journal of the Physical Society of Japan</i> , 2012, 81, 073702.	0.7	12
62	O ₂ -exposure and light-irradiation properties of picene thin film field-effect transistor: A new way toward O ₂ gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 544-549.	4.0	18
63	Synthesis and physical properties of metal-doped picene solids. <i>Physical Review B</i> , 2012, 86, .	1.1	55
64	Characteristics of Single Crystal Field-Effect Transistors with a New Type of Aromatic Hydrocarbon, Picene. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7983-7988.	1.5	39
65	Metal-intercalated aromatic hydrocarbons: a new class of carbon-based superconductors. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16476.	1.3	198
66	Electronic structure of YbGa ₁₅ . <i>Physical Review B</i> , 2011, 83, 114411.	1.1	14
67	Role of π -carriers in mediating the ferromagnetism of CoTiO_2 thin films. <i>Physical Review Letters</i> , 2011, 106, 047602.	2.9	40
68	Electronic state of an organic molecular magnet: Soft x-ray spectroscopy study of \pm -TDAE-C60 single crystal. <i>Physical Review B</i> , 2011, 84, .	1.1	1
69	Electronic structure of an antiferromagnetic metal: CaCrO ₃ . <i>Physical Review B</i> , 2011, 83, .	1.1	24
70	Characteristics of conjugated hydrocarbon based thin film transistor with ionic liquid gate dielectric. <i>Organic Electronics</i> , 2011, 12, 2076-2083.	1.4	32
71	Femtosecond core-level photoemission spectroscopy on TaS_2 using a 60-eV laser. <i>Physical Review B</i> , 2011, 83, 114411.	1.1	53
72	Characteristics of field-effect transistors using the one-dimensional extended hydrocarbon [7]phenacene. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	40

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73	Resonance in PrTi ₂ Al ₃ . http://www.w3.org/1998/Math/MathML display="inline" Al http://www.w3.org/1998/Math/MathML display="inline" 20 Photoemission spectroscopy and single-impurity Anderson model calculations. Physical Review B, 2011, 84, .	1.1	30
74	Spectroscopic evidence of the formation of (V,Ti)O ₂ solid solution in VO ₂ thinner films grown on TiO ₂ (001) substrates. Journal of Applied Physics, 2011, 109, 043702-043702-6.	1.1	24
75	Angle-resolved photoemission spectroscopy for VO ₂ thin films grown on TiO ₂ (0 0 1) substrates. Journal of Electron Spectroscopy and Related Phenomena, 2010, 181, 249-251.	0.8	4
76	Resonant Photoemission Spectroscopy of Layered Triangular Lattices Ag ₂ M ₂ O ₂ (M = Ni and Mn): Evidence for 3d States at Fermi Level. Journal of the Physical Society of Japan, 2010, 79, 023704.	0.7	9
77	Evidence for a Correlated Insulator to Antiferromagnetic Metal Transition in CrN. Physical Review Letters, 2010, 104, 236404.	2.9	64
78	Absence of nesting in the charge-density-wave system T-VS ₁ seen by photoelectron spectroscopy. Physical Review B, 2010, 82, .	1.1	87
79	Electronic structure of SrRu ₂ Si ₂ by photoemission and x-ray absorption spectroscopy. Physical Review B, 2010, 81, .	2.9	104
80	Strong Valence Fluctuation in the Quantum Critical Heavy Fermion Superconductor YbAl ₄ : A Hard X-Ray Photoemission Study. Physical Review Letters, 2010, 104, 247201.	2.9	104
81	Anomalous State Sandwiched between Fermi Liquid and Charge Ordered Mott-Insulating Phases of Ti ₄ O ₇ . Physical Review Band dispersion near the Fermi level for TiO_2 . Physical Review Letters, 2009, 103, 206601.	2.9	29
82	VO ₂ thin films grown on TiO ₂ surfaces. Physical Review B, 2009, 80, .	1.1	21
83	Fermi surfaces, electron-hole symmetry, and correlation kink in a three-dimensional Fermi liquid LaNiO ₃ . Physical Review B, 2009, 79, .	1.1	87
84	Structure and photoemission spectroscopy of strain-controlled metal-insulator transition in NdNiO ₃ thin films. Journal of Applied Physics, 2009, 105, .	1.1	22
85	Evidence for oxygen holes due to d ² prehybridization in thermoelectric Sr _{1-x} Rh ₂ O ₄ . Physical Review B, 2009, 80, .	1.1	6
86	Ishizaka et al. Reply. Physical Review Letters, 2009, 102, .	2.9	0
87	Anomalous Duality of f-Electrons in Filled Skutterudite CeOs ₄ Sb ₃ . Physical Review Letters, 2009, 102, 036403.	2.9	22
88	Observation of Energy Gap in FeGa ₃ . Journal of the Physical Society of Japan, 2008, 77, 024705.	0.7	34
89	Coherent and Incoherent Excitations of Electron-Doped SrTiO ₃ . Physical Review Letters, 2008, 100, 056401.	2.9	88
90	Recoil Effect of Photoelectrons in the Fermi Edge of Simple Metals. Physical Review Letters, 2008, 101, 137601.	2.9	57

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91	Temperature-Dependent Localized Excitations of Doped Carriers in Superconducting Diamond. Physical Review Letters, 2008, 100, 166402.	2.9	25
92	Low power density multihole cathode very-high-frequency plasma for mixed phase Si:H thin films. Applied Physics Letters, 2008, 93, 191502.	1.5	2
93	Combining photoemission and optical spectroscopies for reliable valence determination in YbS and Yb metal. Physical Review B, 2008, 78, .	1.1	24
94	Photoemission evidence for a Mott-Hubbard metal-insulator transition in VO_2 . Physical Review B, 2008, 78, .	1.1	90
95	Electronic structure of $FeSi_{1-x}Ge_x$ and $FeGa_3$ investigated by soft x-ray photoelectron spectroscopy complementary to x-ray emission spectroscopy. Physical Review B, 2008, 78, .	1.1	12
96	Revisiting the Valence-Band and Core-Level Photoemission Spectra of NiO. Physical Review Letters, 2008, 100, 206401.	2.9	97
97	A High-Resolution Soft X-Ray Photoemission Apparatus Combined with a Laser Molecular-Beam Epitaxy System at SPring-8 BL17SU. AIP Conference Proceedings, 2007, . .	0.3	4
98	Electronic structure of $VO_2 \cdot TiO_2$:Nb upon photocarrier injection. Physical Review B, 2007, 75, .	1.1	11
99	Observation of a Superconducting Gap in Boron-Doped Diamond by Laser-Excited Photoemission Spectroscopy. Physical Review Letters, 2007, 98, 047003.	2.9	40
100	Electronic structure of $LaNiO_3$ thin films grown by pulsed laser deposition. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 421-425.	1.1	55
101	In situ photoemission study of $LaNiO_3$ thin films grown by pulsed laser deposition. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 107-110.	0.8	4
102	Electronic structure of configuration vanadium oxides studied by soft X-ray and hard X-ray photoemission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 421-425.	0.8	18
103	Hard X-ray and soft X-ray photoemission study of vanadium oxides. Journal of Magnetism and Magnetic Materials, 2007, 310, e289-e291.	1.0	0
104	Bulk and surface sensitive high-resolution photoemission study of Mott-Hubbard systems $SrVO_3$ and $CaVO_3$. Physica B: Condensed Matter, 2006, 378-380, 330-331.	1.3	6
105	Laser-excited photoemission spectroscopy study of superconducting boron-doped diamond. Science and Technology of Advanced Materials, 2006, 7, S17-S21.	2.8	14
106	Bulk- and Surface-Sensitive High-Resolution Photoemission Study of Two Mott-Hubbard Systems: $SrVO_3$ and $CaVO_3$. Physical Review Letters, 2006, 96, 076402.	2.9	65
107	Photocarrier-injected electronic structure of $VO_2 \cdot TiO_2$:Nb. Applied Physics Letters, 2005, 87, 201912.	1.5	12
108	Direct observation of a neutral Mn acceptor in $Ga_{1-x}Mn_xAs$ by resonant x-ray emission spectroscopy. Physical Review B, 2005, 71, .	1.1	7

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109	X-ray absorption and resonant photoemission spectroscopy of ZrB ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2003, 392-396, 259-262.	0.6	5
110	Unoccupied electronic structure in the surface state of lightly doped SrTiO ₃ by resonant inverse photoemission spectroscopy. <i>Physical Review B</i> , 2002, 66, .	1.1	9
111	Photoemission study of pyrochlore superconductor Cd ₂ Re ₂ O ₇ . <i>Physical Review B</i> , 2002, 66, .	1.1	15
112	Unique identification of Zhang-Rice singlet excitation in Sr ₂ CuO ₂ Cl ₂ mediated by the O 1s core hole: σ -Symmetry-selective resonant soft x-ray Raman scattering study. <i>Physical Review B</i> , 2002, 66, .	1.1	48
113	Angle-resolved photoemission study of the mixed valence oxide V ₆ O ₁₃ : Quasi-one-dimensional electronic structure and its change across the metal-insulator transition. <i>Physical Review B</i> , 2002, 65, .	1.1	20
114	POLARIZATION DEPENDENCE OF RESONANT SOFT X-RAY EMISSION SPECTRA IN Ce COMPOUNDS. <i>Surface Review and Letters</i> , 2002, 09, 983-987.	0.5	11
115	Manganese concentration and low-temperature annealing dependence of Ga _{1-x} Mn _x As by x-ray absorption spectroscopy. <i>Physical Review B</i> , 2002, 65, .	1.1	45
116	Angle-resolved photoemission spectroscopy, optical conductivity, and soft X-ray Raman spectroscopy of quasi-one-dimensional V ₆ O ₁₃ . <i>Physica B: Condensed Matter</i> , 2002, 312-313, 600-602.	1.3	3
117	Probing oxygen and nitrogen bonding sites in chitosan by X-ray emission. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2002, 125, 133-138.	0.8	11
118	Observation of fluorapatite formation under hydrolysis of tetracalcium phosphate in the presence of KF by means of soft X-ray emission and absorption spectroscopy. <i>Journal of Materials Science: Materials in Medicine</i> , 2002, 13, 33-36.	1.7	24
119	Resonant Soft X-Ray Emission Spectroscopy of NiO across the Ni L _{2,3} Thresholds. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 1813-1816.	0.7	33
120	Polarization dependence of the soft X-ray raman scattering at the L edge of TiO ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 114-116, 969-973.	0.8	9
121	Magnetism and metal-insulator transition in III-V based diluted magnetic semiconductors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 84, 88-95.	1.7	41
122	Soft X-ray emission and absorption spectra in the O K region of oxygen incorporated in microporous carbon. <i>Carbon</i> , 2001, 39, 1399-1402.	5.4	2
123	Polarization dependence of soft-x-ray Raman scattering at the L edge of TiO ₂ . <i>Physical Review B</i> , 2000, 61, 12854-12859.	1.1	82