

Ritsuko Eguchi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8743009/publications.pdf>

Version: 2024-02-01

123
papers

3,155
citations

126708

33
h-index

182168

51
g-index

123
all docs

123
docs citations

123
times ranked

4324
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-intercalated aromatic hydrocarbons: a new class of carbon-based superconductors. Physical Chemistry Chemical Physics, 2011, 13, 16476.	1.3	198
2	Electric double-layer capacitance between an ionic liquid and few-layer graphene. Scientific Reports, 2013, 3, 1595.	1.6	138
3	Strong Valence Fluctuation in the Quantum Critical Heavy Fermion Superconductor I^2 \hat{a}^{\sim} YbAlB ₄ : A Hard X-Ray Photoemission Study. Physical Review Letters, 2010, 104, 247201.	2.9	104
4	Revisiting the Valence-Band and Core-Level Photoemission Spectra of NiO. Physical Review Letters, 2008, 100, 206401.	2.9	97
5	Photoemission evidence for a Mott-Hubbard metal-insulator transition in VO ₂ . Physical Review B, 2008, 78, .	1.1	90
6	Coherent and Incoherent Excitations of Electron-Doped SrTiO ₃ . Physical Review Letters, 2008, 100, 056401.	2.9	88
7	Fermi surfaces, electron-hole asymmetry, and correlation kink in a three-dimensional Fermi liquid LaNiO ₃ . Physical Review B, 2009, 79, .	1.1	87
8	Absence of nesting in the charge-density-wave system T-VS ₂ seen by photoelectron spectroscopy. Physical Review B, 2010, 82, .	1.1	87
9	Polarization dependence of soft-x-ray Raman scattering at the Ledge of TiO ₂ . Physical Review B, 2000, 61, 12854-12859.	1.1	82
10	Transistor Application of Phenacene Molecules and Their Characteristics. European Journal of Inorganic Chemistry, 2014, 2014, 3806-3819.	1.0	68
11	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
12	Evidence for a Correlated Insulator to Antiferromagnetic Metal Transition in CrN. Physical Review Letters, 2010, 104, 236404.	2.9	64
13	Transistor application of alkyl-substituted picene. Scientific Reports, 2014, 4, 5048.	1.6	58
14	Recoil Effect of Photoelectrons in the Fermi Edge of Simple Metals. Physical Review Letters, 2008, 101, 137601.	2.9	57
15	Electronic structure of LaO ₃ \hat{a}^{\sim} x. <i>In situ</i> soft-x-ray photoemission and absorption study. Physical Review B, 2007, 76, .	1.1	55
16	Synthesis and physical properties of metal-doped picene solids. Physical Review B, 2012, 86, .	1.1	55
17	Femtosecond core-level photoemission spectroscopy on TaS ₂ . Physical Review B, 2012, 86, .	1.1	53
18	Time-resolved HAXPES at SACLA: probe and pump pulse-induced space-charge effects. New Journal of Physics, 2014, 16, 123045.	1.2	51

#	ARTICLE	IF	CITATIONS
19	Superconductivity in (NH ₃) _y Cs _{0.4} FeSe. <i>Physical Review B</i> , 2013, 88, .	1.1	50
20	Unique identification of Zhang-Rice singlet excitation in Sr ₂ CuO ₂ Cl ₂ mediated by the O _{1s} core hole: ϵ -Symmetry-selective resonant soft x-ray Raman scattering study. <i>Physical Review B</i> , 2002, 66, .	1.1	48
21	Synthesis and transistor application of the extremely extended phenacene molecule, [9]phenacene. <i>Scientific Reports</i> , 2016, 6, 21008.	1.6	46
22	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
23	Characteristics of [6]phenacene thin film field-effect transistor. <i>Applied Physics Letters</i> , 2012, 101, 083301.	1.5	43
24	An Extended Phenacene-type Molecule, [8]Phenacene: Synthesis and Transistor Application. <i>Scientific Reports</i> , 2014, 4, 5330.	1.6	43
25	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
26	Observation of a Superconducting Gap in Boron-Doped Diamond by Laser-Excited Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2007, 98, 047003.	2.9	40
27	Role of Ti ^d Carriers in Mediating the Ferromagnetism of Co ₃ TiO ₂ Thin Films. <i>Physical Review Letters</i> , 2011, 106, 047602.	2.9	40
28	Characteristics of field-effect transistors using the one-dimensional extended hydrocarbon [7]phenacene. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	40
29	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
30	Recent progress on carbon-based superconductors. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 334001.	0.7	38
31	Observation of Energy Gap in FeGa ₃ . <i>Journal of the Physical Society of Japan</i> , 2008, 77, 024705.	0.7	34
32	Resonant Soft X-Ray Emission Spectroscopy of NiO across the NiL _{2,3} Thresholds. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 1813-1816.	0.7	33
33	Observation of zero resistivity in K-doped picene. <i>Physical Review B</i> , 2013, 87, .	1.1	33
34	Electronic structure of fullerene derivatives in organic photovoltaics. <i>Organic Electronics</i> , 2014, 15, 2912-2921.	1.4	33
35	Characteristics of conjugated hydrocarbon based thin film transistor with ionic liquid gate dielectric. <i>Organic Electronics</i> , 2011, 12, 2076-2083.	1.4	32
36	Kondo resonance in PrTi ₂ Al ₂₀ : Photoemission spectroscopy and single-impurity Anderson model calculations. <i>Physical Review B</i> , 2011, 84, .	1.1	30

#	ARTICLE	IF	CITATIONS
37	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
38	Temperature Dependence of Magnetically Active Charge Excitations in Magnetite across the Verwey Transition. <i>Physical Review Letters</i> , 2015, 115, 256405.	2.9	30
39	Anomalous State Sandwiched between Fermi Liquid and Charge Ordered Mott-insulating Phases of Ti_4O_7 . <i>Physical Review Letters</i> , 2010, 104, 106401.	2.9	29
40	Phenanthro[1,2-b:8,7-b TM]dithiophene: a new picene-type molecule for transistor applications. <i>RSC Advances</i> , 2013, 3, 19341.	1.7	28
41	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
42	Quantum valence criticality in a correlated metal. <i>Science Advances</i> , 2018, 4, eaao3547.	4.7	28
43	Temperature-Dependent Localized Excitations of Doped Carriers in Superconducting Diamond. <i>Physical Review Letters</i> , 2008, 100, 166402.	2.9	25
44	Photoelectron Holographic Atomic Arrangement Imaging of Cleaved Bimetal-intercalated Graphite Superconductor Surface. <i>Scientific Reports</i> , 2016, 6, 36258.	1.6	25
45	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
46	Combining photoemission and optical spectroscopies for reliable valence determination in YbS and Yb metal. <i>Physical Review B</i> , 2008, 78, .	1.1	24
47	Electronic structure of an antiferromagnetic metal: $CaCrO_3$. <i>Physical Review B</i> , 2011, 83, .	1.1	24
48	Spectroscopic evidence of the formation of (V,Ti)O ₂ solid solution in VO ₂ thinner films grown on TiO ₂ (001) substrates. <i>Journal of Applied Physics</i> , 2011, 109, 043702-043702-6.	1.1	24
49	Electronic structure of $SrRu_2O_7$ by photoemission and x-ray absorption spectroscopy. <i>Physical Review B</i> , 2010, 81, .	1.1	24
50	Structure and photoemission spectroscopy of strain-controlled metal-insulator transition in NdNiO ₃ thin films. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	22
51	Anomalous Duality of $4f$ Electrons in Filled Skutterudite $CeOs_4Sb_3$. <i>Physical Review B</i> , 2009, 80, .	2.9	22
52	Band dispersion near the Fermi level for VO_2 films grown on TiO_2 substrates. <i>Physical Review B</i> , 2009, 80, .	1.1	21
53	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
54	Angle-resolved photoemission study of the mixed valence oxide V_6O_{13} : Quasi-one-dimensional electronic structure and its change across the metal-insulator transition. <i>Physical Review B</i> , 2002, 65, .	1.1	20

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Electronic structure of configuration vanadium oxides studied by soft X-ray and hard X-ray photoemission spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 156-158, 421-425.	0.8	18
58	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
59	Edge-Dependent Transport Properties in Graphene. <i>Nano Letters</i> , 2013, 13, 1126-1130.	4.5	16
60	Photoemission study of pyrochlore superconductor $\text{Cd}_2\text{Re}_2\text{O}_7$. <i>Physical Review B</i> , 2002, 66, .	1.1	15
61	Laser-excited photoemission spectroscopy study of superconducting boron-doped diamond. <i>Science and Technology of Advanced Materials</i> , 2006, 7, S17-S21.	2.8	14
62	Superconducting phases in $(\text{NH}_4)_x\text{Ti}_2\text{O}_7$. <i>Physical Review B</i> , 2002, 66, .	1.1	14
63	Superconducting phases in $(\text{NH}_4)_x\text{Ti}_2\text{O}_7$. <i>Physical Review B</i> , 2002, 66, .	1.1	14
64	Difference in gating and doping effects on the band gap in bilayer graphene. <i>Scientific Reports</i> , 2017, 7, 11322.	1.6	13
65	Photocarrier-injected electronic structure of $\text{VO}_2 \cdot \text{TiO}_2 \cdot \text{Nb}$. <i>Applied Physics Letters</i> , 2005, 87, 201912.	1.5	12
66	Electronic structure of FeSi_2 and FeGa_3 investigated by soft x-ray photoelectron spectroscopy complementary to x-ray emission spectroscopy. <i>Physical Review B</i> , 2008, 78, .	1.1	12
67	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
68	Carrier Accumulation in Graphene with Electron Donor/Acceptor Molecules. <i>Advanced Electronic Materials</i> , 2015, 1, 1500073.	2.6	12
69	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
70	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
71	Electronic structure of $\text{VO}_2 \cdot \text{TiO}_2 \cdot \text{Nb}$ upon photocarrier injection. <i>Physical Review B</i> , 2007, 75, .	1.1	11

#	ARTICLE	IF	CITATIONS
73	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
74	Parity Effects in Few-Layer Graphene. <i>Nano Letters</i> , 2013, 13, 5153-5158.	4.5	10
75	Electronic structure of CeCuAs ₂ . <i>Physical Review B</i> , 2014, 89, .	1.1	10
76	Electronic Structure Evolution across the Peierls Metal-Insulator Transition in a Correlated Ferromagnet. <i>Physical Review X</i> , 2015, 5, .	2.8	10
77	Correlation of superconductivity with crystal structure in (NH ₃) _y Cs _x FeSe. <i>Physical Review B</i> , 2016, 93, .	1.1	10
78	Emergence of superconductivity in (NH ₃) _y M _x MoSe ₂ (M: Li, Na and K). <i>Scientific Reports</i> , 2016, 6, 29292.	1.6	10
79	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
80	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
81	Resonant Photoemission Spectroscopy of Layered Triangular Lattices Ag ₂ M ₂ O ₂ (M = Ni and Mn): Evidence for M _{3d} States at Fermi Level. <i>Journal of the Physical Society of Japan</i> , 2010, 79, 023704.	0.7	9
82	Electronic structure and surface morphology of [6,6]-phenyl-C ₇₁ -butyric acid methyl ester films. <i>Organic Electronics</i> , 2013, 14, 3222-3227.	1.4	9
83	Superconductivity in (NH ₃) _y NaxFeSe _{0.5} Te _{0.5} . <i>Physical Review B</i> , 2016, 94, .	1.1	9
84	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
85	Superconductivity in Bi ₂ Sb ₂ Te ₃ Se _y (x = 1.0 and y = 2.0) under pressure. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 465702.	0.7	8
86	Direct observation of a neutral Mn acceptor in Ga _{1-x} Mn _x As by resonant x-ray emission spectroscopy. <i>Physical Review B</i> , 2005, 71, .	1.1	7
87	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
88	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
89	Preparation and characterization of superconducting Ba _{1-x} Cs _x Ti ₂ Sb ₂ O, and its pressure dependence of superconductivity. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 110603.	0.8	7
90	Bulk and surface sensitive high-resolution photoemission study of Mott-Hubbard systems SrVO ₃ and CaVO ₃ . <i>Physica B: Condensed Matter</i> , 2006, 378-380, 330-331.	1.3	6

#	ARTICLE	IF	CITATIONS
91	Evidence for oxygen holes due to d - p prehybridization in thermoelectric $\text{Sr}_{1-x}\text{Rh}_2\text{O}_4$. <i>Physical Review B</i> , 2009, 80, .	1.1	6
92	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
93	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
94	Superconductivity of topological insulator $\text{Sb}_{2-x}\text{Te}_{3-y}\text{Se}_y$ under pressure. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 485704.	0.7	5
95	A High-Resolution Soft X-Ray Photoemission Apparatus Combined with a Laser Molecular-Beam Epitaxy System at SPring-8 BL17SU. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	4
96	In situ photoemission study of LaNiO_3 thin films grown by pulsed laser deposition. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 156-158, 107-110.	0.8	4
97	Angle-resolved photoemission spectroscopy for VO_2 thin films grown on TiO_2 (0 0 1) substrates. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 181, 249-251.	0.8	4
98	Superconducting behavior of $\text{BaTi}_2\text{Bi}_2\text{O}$ and its pressure dependence. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23315-23322.	1.3	4
99	Superconducting behavior of a new metal iridate compound, SrIr_2 , under pressure. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 025704.	0.7	4
100	Photochemical synthesis and device application of acene-phenacene hybrid molecules, dibenzo[<i>a,h</i>]phenacenes ($n = 5-7$). <i>Chemical Communications</i> , 2021, 57, 4768-4771.	2.2	4
101	Fabrication of ring oscillators using organic molecules of phenacene and perylene-dicarboximide. <i>RSC Advances</i> , 2021, 11, 7538-7551.	1.7	4
102	Pressure dependence of superconductivity in alkali-Bi compounds KBi_2 and RbBi_2 . <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7185-7194.	1.3	4
103	Angle-resolved photoemission spectroscopy, optical conductivity, and soft X-ray Raman spectroscopy of quasi-one-dimensional V_6O_{13} . <i>Physica B: Condensed Matter</i> , 2002, 312-313, 600-602.	1.3	3
104	Quantifying covalency and metallicity in correlated compounds undergoing metal-insulator transitions. <i>Physical Review B</i> , 2013, 87, .	1.1	3
105	Superconducting properties of BaBi_3 at ambient and high pressures. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23014-23023.	1.3	3
106	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
107	Low power density multihole cathode very-high-frequency plasma for mixed phase Si:H thin films. <i>Applied Physics Letters</i> , 2008, 93, 191502.	1.5	2
108	Preparation and characterization of a new metal-intercalated graphite superconductor. <i>Materials Research Express</i> , 2019, 6, 016003.	0.8	2

#	ARTICLE	IF	CITATIONS
109	Structure and superconducting properties of multiple phases of (NH ₃) _y AE _x FeSe (AE: Ca, Sr and Ba). Journal of Physics Condensed Matter, 2020, 32, 395704.	0.7	2
110	Inhomogeneous superconductivity in thin crystals of FeSe _{1-x} Te _x (x=1.0, 0.95). Journal of Physics Condensed Matter, 2020, 32, 395704.	0.8	2
111	Superconductivity in topological insulator Bi ₂ under pressure. Journal of Physics Condensed Matter, 2021, 33, 135702.	0.7	2
112	Emergence of a Pressure-Driven Superconducting Phase in Ba _{0.77} Na _{0.23} Ti ₂ Sb ₂ O. Inorganic Chemistry, 2021, 60, 3585-3592.	1.9	2
113	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
114	Superconducting Properties of Pd _{1-x} Pt _x Bi ₂ over a Wide Pressure Range. Journal of Physical Chemistry C, 2022, 126, 9948-9955.	1.5	2
115	Electronic state of an organic molecular magnet: Soft x-ray spectroscopy study of TDAE-C60 single crystal. Physical Review B, 2011, 84, .	1.1	1
116	Transistor Application of Phenacene Molecules and Their Characteristics (Eur. J. Inorg. Chem. 24/2014). European Journal of Inorganic Chemistry, 2014, 2014, .	1.0	1
117	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
118	A new protocol for the preparation of superconducting KBi ₂ . RSC Advances, 2020, 10, 26686-26692.	1.7	1
119	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
120	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
121	Ishizaka et al. Reply. Physical Review Letters, 2009, 102, .	2.9	0
122	Graphite and Intercalated Compound Superconductors: Atomic and Electronic Structures. , 2019, , 1-28.		0
123	Superconducting properties of (NH ₃) _y Li _x FeSe _{0.5} Te _{0.5} under pressure. New Journal of Physics, 2019, 21, 113010.	1.2	0