

Yuka Ikemoto

List of Publications by Year in descending order

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110
papers

1,452
citations

331670

21
h-index

414414

32
g-index

110
all docs

110
docs citations

110
times ranked

1765
citing authors

#	ARTICLE	IF	CITATIONS
1	Synchrotron FTIR micro-spectroscopy for structural analysis of Lewy bodies in the brain of Parkinson's disease patients. <i>Scientific Reports</i> , 2015, 5, 17625.	3.3	75
2	Capturing an initial intermediate during the P450 _{nor} enzymatic reaction using time-resolved XFEL crystallography and caged-substrate. <i>Nature Communications</i> , 2017, 8, 1585.	12.8	74
3	Orientation of poly(vinyl alcohol) nanofiber and crystallites in non-woven electrospun nanofiber mats under uniaxial stretching. <i>Polymer</i> , 2012, 53, 4702-4708.	3.8	63
4	Effect of Charged Group Spacer Length on Hydration State in Zwitterionic Poly(sulfobetaine) Brushes. <i>Langmuir</i> , 2017, 33, 8404-8412.	3.5	63
5	Imaging Phase Separation near the Mott Boundary of the Correlated Organic Superconductors $(\text{BEDT-TTF})_2\text{X}$. <i>Physical Review Letters</i> , 2004, 92, 227001.	7.8	57
6	Real Space Imaging of the Metal-Insulator Phase Separation in the Band Width Controlled Organic Mott System $(\text{BEDT-TTF})_2\text{Cu}[\text{N}(\text{CN})_2]\text{Br}$. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 2351-2360.	1.6	49
7	Electronic State of a Conducting Single Molecule Magnet Based on Mn-salen Type and Ni-Dithiolene Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 9337-9344.	4.0	40
8	Infrared microspectroscopy station at BL43IR of SPring-8. <i>Infrared Physics and Technology</i> , 2004, 45, 369-373.	2.9	38
9	Optical Probe of Carrier Doping by X-Ray Irradiation in the Organic Dimer Mott Insulator $(\text{BEDT-TTF})_2\text{Cu}[\text{N}(\text{CN})_2]\text{Cl}$. <i>Physical Review Letters</i> , 2008, 101, 206403.	7.8	38
10	Crystallization and vitrification of electrons in a glass-forming charge liquid. <i>Science</i> , 2017, 357, 1381-1385.	12.6	37
11	Spreading and Structuring of Water on Superhydrophilic Polyelectrolyte Brush Surfaces. <i>Langmuir</i> , 2013, 29, 1148-1151.	3.5	36
12	^{41}K SR study on ferrimagnetic properties of potassium clusters incorporated into low silica X zeolite. <i>Physica B: Condensed Matter</i> , 2006, 374-375, 21-25.	2.7	34
13	Optical studies of nanoscale materials incorporated in the space of zeolite crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997, 48, 116-121.	3.5	28
14	Ferromagnetism and paramagnetism in potassium clusters incorporated in zeolite LTA. <i>European Physical Journal D</i> , 1999, 9, 505-508.	1.3	28
15	BL43IR at SPring-8 redirected. <i>Infrared Physics and Technology</i> , 2008, 51, 400-403.	2.9	25
16	Development of scattering near-field optical microspectroscopy apparatus using an infrared synchrotron radiation source. <i>Optics Communications</i> , 2012, 285, 2212-2217.	2.1	24
17	Infrared Spectra and Hydrogen-Bond Configurations of Water Molecules at the Interface of Water-Insoluble Polymers under Humidified Conditions. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4143-4151.	2.6	24
18	Loading density dependence of ferromagnetic properties in potassium clusters arrayed in a simple cubic structure in zeolite LTA. <i>Physica B: Condensed Matter</i> , 2000, 281-282, 688-690.	2.7	23

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19	Counteranion-Specific Hydration States of Cationic Polyelectrolyte Brushes. Industrial & Engineering Chemistry Research, 2018, 57, 5268-5275.	3.7	23
20	Role of Ag doping in Ba ₈ Si ₄₆ compounds. Physical Review B, 2005, 72, .	3.2	22
21	Shear-induced conformational fluctuations of polystyrene probed by 2D infrared microspectroscopy. Polymer, 2012, 53, 4855-4860.	3.8	22
22	Photogenerated Carriers in SrTiO ₃ Probed by Mid-Infrared Absorption. Journal of the Physical Society of Japan, 2006, 75, 023703.	1.6	21
23	Mechanochemical lithiation of layered polysilane. Chemical Communications, 2014, 50, 9761-9764.	4.1	21
24	Preparation of hydrophilic polymeric materials with movable cross-linkers and their mechanical property. Polymer, 2020, 196, 122465.	3.8	20
25	Emergence of charge degrees of freedom under high pressure in the organic dimer Mott insulator Mn^{2+} . Physical Review B, 2015, 92, .	3.2	19
26	Soft x-ray spectroscopy of Ba ₂₄ Ge ₁₀₀ : Electronic phase transition and Ba-atom rattling. Journal of Chemical Physics, 2005, 123, 074503.	3.0	18
27	Fourier-transform spectra of metal salts of phytic acid in the mid- to far-infrared spectral range. Vibrational Spectroscopy, 2017, 92, 215-219.	2.2	18
28	Far-Infrared Spectroscopy of Electronic States of Cu ₂ Se ₄ at High Pressure. Journal of the Physical Society of Japan, 2005, 74, 1099-1102.	1.6	15
29	OH group behavior and pressure-induced amorphization of antigorite examined under high pressure and temperature using synchrotron infrared spectroscopy. American Mineralogist, 2012, 97, 134-142.	1.9	15
30	Hybridization-Gap Formation and Superconductivity in the Pressure-Induced Semimetallic Phase of the Excitonic Insulator Ta ₂ NiSe ₅ . Journal of the Physical Society of Japan, 2021, 90, 074706.	1.6	15
31	Intradimer Charge Disproportionation in Cu^{2+} Triclinic $\text{Cu}_3\text{P}(\text{Pd})_2$ (dmit: Tj ETQq1 1 0.784314 rgBT / Överlock 10 1450 257)		
32	Ferromagnetic properties of rubidium clusters in zeolite LTA. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 238-240.	2.3	13
33	Spin-cant model of ferromagnetism in potassium clusters incorporated in zeolite LTA. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 114-116.	2.3	13
34	Infrared Study of Spin Crossover Fe ^{II} -Picolylamine Complex. Journal of the Physical Society of Japan, 2004, 73, 1355-1361.	1.6	13
35	Phase separation in the vicinity of the surface of $\text{BEDT-TTF}_2\text{Cu}[\text{N}(\text{CN})_2\text{Br}]$ by fast cooling. Physical Review B, 2005, 72, .	3.2	13
36	Optical Conductivity and Electronic Structure of CeRu ₄ Sb ₁₂ under High Pressure. Journal of the Physical Society of Japan, 2011, 80, 084718.	1.6	13

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37	Optical Conductivity Measurement of a Dimer Mott-Insulator to Charge-Order Phase Transition in a Two-Dimensional Quarter-Filled Organic Salt Compound. <i>Physical Review Letters</i> , 2013, 111, 217801.	7.8	13
38	Cellulose Nanofiber Composite Polymeric Materials with Reversible and Movable Cross-links and Evaluation of their Mechanical Properties. <i>ACS Applied Polymer Materials</i> , 2022, 4, 403-412.	4.4	13
39	Collective excitation of a short-range charge ordering in CsZn(SCN)_2 -(BEDT-TTF). <i>Physical Review B</i> , 2014, 89, .	3.2	12
40	Infrared spectroscopy techniques for studying the electronic structures of materials under high pressure. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 05FA11.	1.5	12
41	Charge and Lattice Fluctuations in Molecule-Based Spin Liquids. <i>Scientific Reports</i> , 2017, 7, 12930.	3.3	12
42	Two-phonon Absorption Spectra in the Layered Honeycomb Compound RuCl_3 . <i>Journal of the Physical Society of Japan</i> , 2017, 86, 123709.	1.6	12
43	Unprecedented CO_2 adsorption behaviour by 5A-type zeolite discovered in lower pressure region and at 300 K. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7531-7545.	10.3	12
44	Electron Spin Resonance Study and Orbital Degeneracy of Potassium Clusters in Zeolite LTA. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 199-201.	1.6	11
45	Synergetic improvement in the mechanical properties of polyurethanes with movable crosslinking and hydrogen bonds. <i>Soft Matter</i> , 2022, 18, 5027-5036.	2.7	11
46	Magnetic and optical properties of K and Na clusters arrayed in a diamond structure in zeolite FAU. <i>Physica B: Condensed Matter</i> , 2000, 281-282, 691-693.	2.7	10
47	^{81}Rb NMR study on ferromagnetism of potassium clusters in aluminosilicate zeolite LTA. <i>Physica B: Condensed Matter</i> , 2003, 326, 550-555.	2.7	10
48	Bonding and electronic states of boron in silicon nanowires characterized by an infrared synchrotron radiation beam. <i>Nanoscale</i> , 2015, 7, 7246-7251.	5.6	10
49	Preparation of dual-cross network polymers by the knitting method and evaluation of their mechanical properties. <i>NPG Asia Materials</i> , 2022, 14, .	7.9	10
50	Broadband near-field mid-infrared spectroscopy and application to phonon resonances in quartz. <i>Optics Express</i> , 2012, 20, 11064.	3.4	9
51	The secondary structural difference between Lewy body and glial cytoplasmic inclusion in autopsy brain with synchrotron FTIR micro-spectroscopy. <i>Scientific Reports</i> , 2020, 10, 19423.	3.3	9
52	Disorder Effect for an Orbital Order in Ca_2RuO_4 Revealed by Infrared Imaging Spectroscopy. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 084701.	1.6	8
53	Temperature dependence of plasmon resonance in single-walled carbon nanotubes. <i>Physical Review B</i> , 2016, 93, .	3.2	8
54	Fabrication and mechanical properties of knitted dissimilar polymeric materials with movable cross-links. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 733-745.	3.4	8

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55	Microoptical spectroscopy of BiI ₃ molecules adsorbed in nano-channels of zeolite single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996, 217-218, 151-154.	5.6	7
56	Optical and ESR Studies of Na Clusters in Zeolite FAU. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 341, 453-459.	0.3	7
57	Insulating phase of potassium clusters arrayed in low-silica-type zeolite FAU. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 226-230, 229-232.	2.3	7
58	Photoinduced spin crossover in a Fe-picolylamine complex: A far-infrared study on single crystals. <i>Physical Review B</i> , 2005, 72, .	3.2	7
59	Near-Field Spectroscopy with Infrared Synchrotron Radiation Source. <i>E-Journal of Surface Science and Nanotechnology</i> , 2011, 9, 63-66.	0.4	7
60	Thermally tunable selective formation of self-assembled fibers into two orthogonal directions in oriented liquid-crystalline smectic templates. <i>Chemical Communications</i> , 2020, 56, 9954-9957.	4.1	7
61	Analysis of the sol and gel structures of potato starch over a wide spatial scale. <i>Food Science and Nutrition</i> , 2021, 9, 4916-4926.	3.4	7
62	Infrared spectroscopy under extreme conditions. <i>Physica B: Condensed Matter</i> , 2003, 329-333, 1625-1626.	2.7	6
63	Broad band infrared near-field spectroscopy at finger print region using SPring-8. <i>Infrared Physics and Technology</i> , 2008, 51, 417-419.	2.9	6
64	Modulated near-field spectral extraction of broadband mid-infrared signals with a ceramic light source. <i>Optics Express</i> , 2011, 19, 12469.	3.4	6
65	Assessment of the VDW interaction converting DMAPS from the thermal-motion form to the hydrogen-bonded form. <i>Scientific Reports</i> , 2019, 9, 13104.	3.3	6
66	Hydration Mechanism in Blood-Compatible Polymers Undergoing Phase Separation. <i>Langmuir</i> , 2022, 38, 1090-1098.	3.5	6
67	Far infrared microspectroscopy of zeolite MOR single crystal. <i>Infrared Physics and Technology</i> , 2006, 49, 78-81.	2.9	5
68	Evaluation of dispersion state of the two racemic compounds of troglitazone in pharmaceutical granules using IR-to-THz imaging. <i>Infrared Physics and Technology</i> , 2008, 51, 450-453.	2.9	5
69	Pressure evolution of <i>f</i> -electron hybridized state in CeCoIn ₅ studied by optical conductivity. <i>Journal of Physics: Conference Series</i> , 2015, 592, 012001.	0.4	5
70	Fourier transform infrared microspectroscopic characterization of Neoproterozoic organic microfossils from the Fifteenmile Group in Yukon, Canada. <i>Island Arc</i> , 2019, 28, e12310.	1.1	5
71	Infrared spectroscopy on electronic structures of platinum-group metal penitrides MN ₂ (M = Ru, Rh,) Tj ETQq1 1 0,784314 rgBT /Overlo	2.7	5
72	Phonon-assisted proton tunneling in the hydrogen-bonded dimeric selenates of Cs ₃ H(SeO ₄) ₂ . <i>Journal of Chemical Physics</i> , 2020, 152, 154502.	3.0	5

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73	Studying microscale distributions of aliphatic C-H bonds in Neoproterozoic prokaryotic fossils using SR micro-FTIR. <i>Geochemical Journal</i> , 2017, 51, 589-594.	1.0	5
74	Spatial distribution of organic functional groups in Ediacaran acritarchs from the Doushantuo Formation in South China as revealed by micro-FTIR spectroscopy. <i>Precambrian Research</i> , 2022, 373, 106628.	2.7	5
75	Magnetic Properties Near the Ferromagnetic-Nonferromagnetic Phase Boundary in Potassium Clusters Incorporated into Zeolite LTA. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 341, 461-466.	0.3	4
76	Mid infrared throughput with 5.μm aperture for H ₂ O determination of an andesitic glass: Comparison of synchrotron radiation source at SPring-8 with conventional light sources.. <i>Geochemical Journal</i> , 2003, 37, 253-259.	1.0	4
77	¹³⁷ Cs study of ferromagnetism in potassium clusters incorporated in zeolite LTA. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 117-119.	2.3	4
78	Dichroic infrared absorption of dipole centers in cadmium halide crystals. <i>Journal of Luminescence</i> , 2004, 108, 75-79.	3.1	4
79	Application of a Modulating Technique to Detect Near-Field Signals Using a Conventional IR Spectrometer with a Ceramic Light Source. <i>E-Journal of Surface Science and Nanotechnology</i> , 2011, 9, 40-45.	0.4	4
80	Pressure suppression of unconventional charge-density-wave state in PrRu ₂ P ₂ As ₂ studied by optical conductivity. <i>Physical Review B</i> , 2012, 85, .	3.2	4
81	Pressure Suppression of Spin-Density-Wave Gap in the Optical Conductivity of SrFe ₂ As ₂ . <i>Journal of the Physical Society of Japan</i> , 2013, 82, 074720.	1.6	4
82	Analysis of Human Hair Cross Section Using Infrared Microspectroscopy. <i>Journal of Society of Cosmetic Chemists of Japan</i> , 2016, 50, 209-217.	0.1	4
83	e-beam irradiation effects on IR absorption bands in single-walled carbon nanotubes. <i>Solid State Communications</i> , 2017, 250, 119-122.	1.9	4
84	Contrasting pressure evolution of f _d -electron hybridized states in CeRhIn ₅ and	3.2	4
85	Infrared Synchrotron Radiation and Its Application to the Analysis of Cultural Heritage. <i>Condensed Matter</i> , 2020, 5, 28.	1.8	4
86	Electrical Inhomogeneity at the Mott Transition in the Band Width Controlled $\text{Pr}(\text{BEDT-TTF})_2\text{Cu}[\text{N}(\text{CN})_2\text{Br}]$. <i>Journal of Low Temperature Physics</i> , 2007, 142, 377-382.	1.4	3
87	Metallic pattern fabrication in organic Mott insulating crystal by local X-ray irradiation. <i>Solid State Communications</i> , 2009, 149, 775-777.	1.9	3
88	Magnetic properties of Na-K clusters in low-silica X zeolite doped by pressure loading. <i>Journal of Physics: Conference Series</i> , 2010, 200, 012062.	0.4	3
89	Optical evidence for the spin-state disorder in $\text{LaCo}_{1-x}\text{Rh}_x\text{O}_3$. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 235802.	1.8	3
90	Dimer-Mott and charge-ordered insulating states in the quasi-one-dimensional organic conductors PrPa^{e^-} - and PrCa^{e^-} (BPDT-TTF) ₂ ICl ₂ . <i>Physical Review B</i> , 2017, 96, .	3.2	3

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91	Spectroscopic signature of trimer Mott insulator and charge disproportionation in BaIrO ₃ . Physical Review B, 2018, 98, .	3.2	3
92	Polarized Infrared Absorption in CdI ₂ :CN-Crystals. Journal of the Physical Society of Japan, 2003, 72, 2128-2129.	1.6	2
93	Synchrotron FT-IR microspectroscopic analysis of necrotic bone. Spectroscopy, 2007, 21, 227-234.	0.8	2
94	Structural Analysis of Precious Coral Carbonate Layers Using Synchrotron Radiation-infrared Rays. Bunseki Kagaku, 2014, 63, 593-602.	0.2	2
95	Improvement of infrared near-field spectrum by asymmetric interferometer configuration. Japanese Journal of Applied Physics, 2015, 54, 082402.	1.5	2
96	HgCdTe detector saturation using infrared free electron laser and infrared synchrotron radiation. Infrared Physics and Technology, 2020, 106, 103268.	2.9	2
97	Mesogenic discrete metallofoldamer for columnar liquid crystal. Chemical Communications, 2022, 58, 3274-3277.	4.1	2
98	Optical gain in an inhomogeneously broadened exciton system. Journal of Luminescence, 1994, 58, 241-243.	3.1	1
99	Electrical inhomogeneity at the mott transition in the band width controlled $\hat{I}_{\pm}^{\pm}(\text{BEDT-TTF})_2\text{Cu}[\text{N}(\text{CN})_2\text{Br}$. Journal of Low Temperature Physics, 2006, 142, 373-378.	1.4	1
100	Analysis of Composition Distribution in High Impact Polypropylene Particles Using Synchrotron Infrared Microspectroscopy Imaging. Bunseki Kagaku, 2010, 59, 531-535.	0.2	1
101	Suppression of Metal-Insulator Transition in PrRu ₄ P ₁₂ under High Pressure Studied by Infrared Spectroscopy. Journal of the Physical Society of Japan, 2011, 80, SA092.	1.6	1
102	Charge Ordering and \hat{I}_{\pm}^{\pm} Interaction in Electron-Doped 3/4-Filling Molecular System $\hat{I}_{\pm}^{\pm}(\text{BEDT-TTF})_2\text{Rb}_2\text{Co}(\text{SCN})_4$ (x = 0.6). Journal of the Physical Society of Japan, 2021, 90, 074701.	1.6	1
103	Evaluation of the local homogeneity fluctuation of sinter of the small chip size MLCCs by means of mid-infrared spectroscopy. Infrared Physics and Technology, 2008, 51, 433-437.	2.9	0
104	Control of impurity diffusion in silicon by IR laser excitation. Physica B: Condensed Matter, 2009, 404, 4685-4688.	2.7	0
105	Synchrotron Microscopic Fourier Transform Infrared Spectroscopy Analyses of Biogenic Guanine Crystals Along Axes of Easy Magnetization. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	0
106	Optical Response of a Glassy Electronic State in $\hat{I}_{\pm}^{\pm}(\text{BEDT-TTF})_2\text{CsZn}(\text{SCN})_4$. , 2014, , .		0
107	Pressure Induced Spectral Redistribution due to Te ₂ Dimer Breaking in AuTe ₂ . Journal of the Physical Society of Japan, 2021, 90, .	1.6	0
108	Optical Study of a Novel Phase Transition from Dimer-Mott to Charge-Order Insulator. , 2014, , .		0

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109	Synchrotron-Radiation Infrared Microspectroscopy of Marcasite-Type NiN ₂ . Journal of the Physical Society of Japan, 2022, 91, .	1.6	0
110	Mechanisms of the antiferro-electric ordering in superprotonic conductors Cs ₃ H(SeO ₄) ₂ and Cs ₃ D(SeO ₄) ₂ . Journal of Chemical Physics, 2022, 156, 204504.	3.0	0