

Hiroyuki Yoshida

List of Publications by Year in descending order

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papers

2,700
citations

186265

28
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182427

51
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82
all docs

82
docs citations

82
times ranked

3337
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron affinities of small-molecule organic semiconductors: Comparison among cyclic voltammetry, conventional inverse photoelectron spectroscopy, and low-energy inverse photoelectron spectroscopy. <i>Organic Electronics</i> , 2022, 108, 106551.	2.6	7
2	Conduction band structure of high-mobility organic semiconductors and partially dressed polaron formation. <i>Nature Materials</i> , 2022, 21, 910-916.	27.5	17
3	Surface Termination of Solution-Processed CH ₃ NH ₃ PbI ₃ Perovskite Film Examined using Electron Spectroscopies. <i>Advanced Materials</i> , 2021, 33, e2004981.	21.0	27
4	Monitoring of Crystallization Process in Solution-Processed Pentacene Thin Films by Chemical Conversion Reactions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2437-2445.	3.1	2
5	Surface structure of quasi-2D perovskite PEA _{2m} MA _{n-2m} Pb _n I _{3n} (n ≈ m). <i>Applied Physics Express</i> , 2021, 14, 031006.	2.4	0
6	Accessing the Conduction Band Dispersion in CH ₃ NH ₃ PbI ₃ Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3773-3778.	4.6	7
7	Substrate-Independent Control of Polymorphs in Tetraphenylporphyrin Thin Films by Varying the Solvent Evaporation Time Using a Simple Spin-Coating Technique. <i>Crystal Growth and Design</i> , 2021, 21, 5116-5125.	3.0	4
8	Metal screening effect on energy levels at metal/organic interface: Precise determination of screening energy using photoelectron and inverse-photoelectron spectroscopies. <i>Physical Review B</i> , 2021, 104, .	3.2	9
9	Reduction of Electric Current Loss by Aggregation-Induced Molecular Alignment of a Non-Fullerene Acceptor in Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60299-60305.	8.0	7
10	Impact of Noncovalent Sulfur-Fluorine Interaction Position on Properties, Structures, and Photovoltaic Performance in Naphthobisthiadiazole-Based Semiconducting Polymers. <i>Advanced Energy Materials</i> , 2020, 10, 1903278.	19.5	39
11	Determination of Both Tilting and In-Plane Molecular Rotational Angles for Dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene Using Near-Edge X-ray Absorption Fine Structure. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14195-14201.	3.1	3
12	Significantly Sensitized Ternary Blend Polymer Solar Cells with a Very Small Content of the Narrow-Band Gap Third Component That Utilizes Optical Interference. <i>Macromolecules</i> , 2020, 53, 10623-10635.	4.8	17
13	Quantitative analysis of the electrostatic and electronic polarization energies in molecularly mixed films of organic semiconductors. <i>Physical Review B</i> , 2020, 102, .	3.2	6
14	Hybridization vs decoupling: influence of an h-BN interlayer on the physical properties of a ladder-type molecule on Ni(111). <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 1168-1177.	2.8	10
15	Temperature-dependent band structure evolution determined by surface geometry in organic halide perovskite single crystals. <i>Physical Review B</i> , 2020, 102, .	3.2	9
16	Ground-state electron transfer in all-polymer donor-acceptor heterojunctions. <i>Nature Materials</i> , 2020, 19, 738-744.	27.5	111
17	Structure-Dependent Electron Affinities of Perylene Diimide-Based Acceptors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9765-9773.	3.1	18
18	Alternative Face-on Thin Film Structure of Pentacene. <i>Scientific Reports</i> , 2019, 9, 579.	3.3	40

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19	Effects of gas cluster ion beam sputtering on the molecular orientation of organic semiconductor films: Ultraviolet photoelectron spectroscopy study of [6]phenacene. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	4
20	Anatomy of the energetic driving force for charge generation in organic solar cells. <i>Nature Communications</i> , 2019, 10, 2520.	12.8	95
21	High sensitivity detection of the frontier electronic states of CH ₃ NH ₃ PbI ₃ single crystals by low energy excitation. <i>Applied Physics Express</i> , 2019, 12, 051009.	2.4	10
22	Enhancement of Signal Intensity for Inverse Photoelectron Spectroscopy by Surface Plasmon Resonance of Ag Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28789-28794.	3.1	5
23	The Evolution of Intermolecular Energy Bands of Occupied and Unoccupied Molecular States in Organic Thin Films. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12090-12097.	3.1	19
24	Effects of end-on oriented polymer chains at the donor/acceptor interface in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22889-22898.	10.3	22
25	Photoelectron Spectroscopy of Molecular Anion of Alq ₃ : An Estimation of Reorganization Energy for Electron Transport in the Bulk. <i>ACS Omega</i> , 2018, 3, 15200-15204.	3.5	2
26	Effects of Molecular Orientation of a Fullerene Derivative at the Donor/Acceptor Interface on the Device Performance of Organic Photovoltaics. <i>Chemistry of Materials</i> , 2018, 30, 8233-8243.	6.7	8
27	Structure control of a zinc tetraphenylporphyrin thin film by vapor annealing using fluorine containing solvent. <i>Thin Solid Films</i> , 2018, 665, 85-90.	1.8	5
28	Impact of the molecular quadrupole moment on ionization energy and electron affinity of organic thin films: Experimental determination of electrostatic potential and electronic polarization energies. <i>Physical Review B</i> , 2018, 97, .	3.2	47
29	Effect of end group of amorphous perfluoro-polymer electrets on electron trapping. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 486-494.	6.1	25
30	Three-dimensional π -conjugated compounds as non-fullerene acceptors in organic photovoltaics: the influence of acceptor unit orientation at phase interfaces on photocurrent generation efficiency. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3932-3938.	10.3	21
31	Effects of the ambient exposure on the electronic states of the clean surface of the pentacene single crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 648, 216-222.	0.9	7
32	Charge transfer states appear in the π -conjugated pure hydrocarbon molecule on Cu(111). <i>Applied Physics Express</i> , 2016, 9, 045201.	2.4	10
33	Implication of Fluorine Atom on Electronic Properties, Ordering Structures, and Photovoltaic Performance in Naphthobisthiadiazole-Based Semiconducting Polymers. <i>Journal of the American Chemical Society</i> , 2016, 138, 10265-10275.	13.7	319
34	Dithienylthienothiophenebisimide, a Versatile Electron-Deficient Unit for Semiconducting Polymers. <i>Advanced Materials</i> , 2016, 28, 6921-6925.	21.0	83
35	Principle and application of low energy inverse photoemission spectroscopy: A new method for measuring unoccupied states of organic semiconductors. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 204, 116-124.	1.7	70
36	Crystallization-Induced Energy Level Change of [6,6]-Phenyl-C ₆₁ -Butyric Acid Methyl Ester (PCBM) Film: Impact of Electronic Polarization Energy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23-28.	3.1	44

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37	Electron affinities of organic materials used for organic light-emitting diodes: A low-energy inverse photoemission study. <i>Organic Electronics</i> , 2015, 20, 24-30.	2.6	86
38	Amorphous oxide alloys as interfacial layers with broadly tunable electronic structures for organic photovoltaic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7897-7902.	7.1	41
39	Electron Transport in Bathocuproine Interlayer in Organic Semiconductor Devices. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24459-24464.	3.1	50
40	Complete description of ionization energy and electron affinity in organic solids: Determining contributions from electronic polarization, energy band dispersion, and molecular orientation. <i>Physical Review B</i> , 2015, 92, .	3.2	101
41	Note: Low energy inverse photoemission spectroscopy apparatus. <i>Review of Scientific Instruments</i> , 2014, 85, 016101.	1.3	40
42	Measuring the electron affinity of organic solids: an indispensable new tool for organic electronics. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2231-2237.	3.7	43
43	Electron-donor function of methanofullerenes in donor-acceptor bulk heterojunction systems. <i>Chemical Communications</i> , 2014, 50, 4123-4125.	4.1	22
44	Low-Energy Inverse Photoemission Study on the Electron Affinities of Fullerene Derivatives for Organic Photovoltaic Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24377-24382.	3.1	86
45	Orientation-Dependent Electronic Structures and Charge Transport Mechanisms in Ultrathin Polymeric n-Channel Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4417-4422.	8.0	74
46	Low-energy inverse photoemission spectroscopy using a high-resolution grating spectrometer in the near ultraviolet range. <i>Review of Scientific Instruments</i> , 2013, 84, 103901.	1.3	23
47	Electron affinity of pentacene thin film studied by radiation-damage free inverse photoemission spectroscopy. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	61
48	New Experimental Method to Precisely Examine the LUMO Levels of Organic Semiconductors and Application to the Fullerene Derivatives. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1493, 295-301.	0.1	13
49	Electronic Structure of the Buried Interface Between an Organic Semiconductor, $\text{N,N}'\text{-Bis}(3\text{-methylphenyl})\text{-N,N}'\text{-Diphenylbenzidine}$ (TPD), and Metal Surfaces. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 494-498.	0.9	1
50	A Precise Analysis of the Core-Level Energy Difference between the Surface and Bulk Region of Organic Semiconductor Thin Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10033-10038.	3.1	13
51	Core level energy differences between the surface and bulk of organic semiconductor films: The effect of electrostatic polarization energy. <i>Synthetic Metals</i> , 2012, 161, 2549-2553.	3.9	7
52	Near-ultraviolet inverse photoemission spectroscopy using ultra-low energy electrons. <i>Chemical Physics Letters</i> , 2012, 539-540, 180-185.	2.6	124
53	Molecular orientation analysis of organic thin films by z -polarization Raman microscope. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 2029-2034.	2.5	30
54	Decay Mechanism of Spontaneously Built-up Surface Potential in a Thin Film of a Zwitterionic Molecule Having Noncentrosymmetric Crystal Structure. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2356-2359.	3.1	0

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55	The depth profile of core energy levels: Electronic structure of buried organic/metal interfaces examined by X-ray photoemission and target factor analysis. <i>Chemical Physics Letters</i> , 2011, 511, 146-150.	2.6	9
56	Spontaneous buildup of surface potential with a thin film of a zwitterionic molecule giving noncentrosymmetric crystal structure. <i>Applied Physics Letters</i> , 2009, 95, 182901.	3.3	4
57	Electronic structure of bis(benzo)pentathienoacene in gas and solid phase: ultraviolet photoemission spectroscopy and energy band calculation. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 185-191.	2.3	1
58	A noncentrosymmetric crystal structure of a zwitterionic compound, pyridinium 5,7-dihydro-5,7-dioxo-6H-cyclopenta[b]pyridin-6-ylide, realized by weak hydrogen bonds. <i>Journal of Molecular Structure</i> , 2009, 920, 52-60.	3.6	2
59	Reversible polymorphic crystalline transition of a push-pull-type molecule: {4-[4,5-bis(methylsulfanyl)-1,3-dithiol-2-ylidene]cyclohexa-2,5-dien-1-ylidene}malononitrile (BMDCM). <i>Journal of Molecular Structure</i> , 2009, 922, 30-34.	3.6	1
60	Valence-Tautomeric Ionic Liquid Composed of a Cobalt Bis(dioxolene) Complex Dianion. <i>Inorganic Chemistry</i> , 2009, 48, 9989-9991.	4.0	37
61	An Accurate Calculation of Electronic Contribution to Static Permittivity Tensor for Organic Molecular Crystals on the Basis of the Charge Response Kernel Theory. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9207-9212.	2.5	14
62	Solvent-Dependent Structural and Electronic Behaviors of a Push-Pull Molecule: {4-[4,5-Bis(methylsulfanyl)-1,3-dithiol-2-ylidene]cyclohexa-2,5-dien-1-ylidene}malononitrile. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9174-9179.	2.5	3
63	Electronic structure of disjoint diradical 4,4'-bis(1,2,3,5-dithiadiazolyl) thin films. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11432.	2.8	9
64	Electronic structure of 1,3,5-trithia-2,4,6-triazapentalenyl on gold. <i>Chemical Physics Letters</i> , 2008, 451, 58-62.	2.6	3
65	Ultraviolet photoelectron spectroscopy and inverse photoemission spectroscopy of [6,6]-phenyl-C61-butyric acid methyl ester in gas and solid phases. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	105
66	Electronic structure of frontier states in an evaporated thin film of a highly amphoteric and polar molecule. <i>Synthetic Metals</i> , 2008, 158, 934-938.	3.9	2
67	Crystallographic and electronic structures of three different polymorphs of pentacene. <i>Physical Review B</i> , 2008, 77, .	3.2	108
68	Aluminum diffusion and reaction in thin films of perylene-3,4,9,10-tetracarboxylic dianhydride: Depth profiles and time-dependent diffusion coefficients. <i>Applied Physics Letters</i> , 2007, 91, 141915.	3.3	23
69	X-ray diffraction reciprocal space mapping study of the thin film phase of pentacene. <i>Applied Physics Letters</i> , 2007, 90, 181930.	3.3	155
70	Deposition of Acrylonitrile Cluster Ions on Solid Substrates: Thin Film Formation by Intracluster Polymerization Products. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4232-4239.	2.6	6
71	Grazing-incidence x-ray diffraction study of pentacene thin films with the bulk phase structure. <i>Applied Physics Letters</i> , 2006, 89, 101919.	3.3	56
72	Electronic structures of unoccupied states in lithium phthalocyanine thin films of different polymorphs studied by IPES. <i>Applied Surface Science</i> , 2003, 212-213, 438-440.	6.1	7

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73	Unoccupied electronic states in a hexatriacontane thin film studied by inverse photoemission spectroscopy. <i>Chemical Physics Letters</i> , 2002, 361, 367-373.	2.6	16
74	Unoccupied electronic states of 3d-transition metal phthalocyanines (MPc: M=Mn, Fe, Co, Ni, Cu and) Tj ETQq0 0 0 rgBT /Overlock 10 T Phenomena, 2001, 121, 83-91.	1.7	40
75	Molecular Orbital Calculations of Nonlinear Optical Parameters for Test Molecules of a Highly Amphoteric and Polar Molecule (HAPM). <i>Molecular Crystals and Liquid Crystals</i> , 2001, 355, 319-329.	0.3	3
76	Unoccupied electronic structure in organic thin films studied by inverse photoemission spectroscopy. <i>Journal of Materials Chemistry</i> , 1999, 10, 85-89.	6.7	25
77	Electronic structure of vanadium cluster anions as studied by photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 1997, 106, 2182-2187.	3.0	45
78	PHOTOELECTRON SPECTROSCOPY OF $\{m\{Co\}_n\}^-$ AND PRODUCT ANIONS OF $\{m\{Co\}_n\}^-$ WITH O ₂ AND N ₂ . <i>Surface Review and Letters</i> , 1996, 03, 667-670.	1.1	3
79	Spinâ€polarized electronic structure of cobalt cluster anions studied by photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 1995, 102, 5960-5965.	3.0	63
80	Photoelectron spectroscopy of (CO ₂) _n H ₂ O ^{âˆ’} (2âˆ© ^{1/2} âˆ© ^{1/2}) clusters. <i>Chemical Physics Letters</i> , 1992, 199, 205âˆ©âˆ©. 16		