Hiroyuki Yoshida

List of Publications by Year
in descending order

80	2,700	186209 28	182361 51
papers	citations	h-index	g-index

82	82	82	3337
all docs	docs citations	times ranked	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. Organic Electronics, 2022, 108, 106551.	1.4	7
2	Conduction band structure of high-mobility organic semiconductors and partially dressed polaron formation. Nature Materials, 2022, 21, 910-916.	13.3	17
3	Surface Termination of Solutionâ€Processed CH₃NH₃PbI₃ Perovskite Film Examined using Electron Spectroscopies. Advanced Materials, 2021, 33, e2004981.	11.1	27
4	Monitoring of Crystallization Process in Solution-Processed Pentacene Thin Films by Chemical Conversion Reactions. Journal of Physical Chemistry C, 2021, 125, 2437-2445.	1.5	2
5	Surface structure of quasi-2D perovskite PEA_{2m}MA_{nâ^'2m}Pb_nI_{3n}(n â‰« m). Applied Physics Express, 2021, 14, 031006.	1.1	0
6	Accessing the Conduction Band Dispersion in CH₃NH₃PbI₃ Single Crystals. Journal of Physical Chemistry Letters, 2021, 12, 3773-3778.	2.1	7
7	Substrate-Independent Control of Polymorphs in Tetraphenylporphyrin Thin Films by Varying the Solvent Evaporation Time Using a Simple Spin-Coating Technique. Crystal Growth and Design, 2021, 21, 5116-5125.	1.4	4
8	Metal screening effect on energy levels at metal/organic interface: Precise determination of screening energy using photoelectron and inverse-photoelectron spectroscopies. Physical Review B, 2021, 104, .	1.1	9
9	Reduction of Electric Current Loss by Aggregation-Induced Molecular Alignment of a Non-Fullerene Acceptor in Organic Photovoltaics. ACS Applied Materials & Interfaces, 2021, 13, 60299-60305.	4.0	7
10	Impact of Noncovalent Sulfurâ€“Fluorine Interaction Position on Properties, Structures, and Photovoltaic Performance in Naphthobisthiadiazoleâ€Based Semiconducting Polymers. Advanced Energy Materials, 2020, 10, 1903278.	10.2	39
11	Determination of Both Tilting and In-Plane Molecular Rotational Angles for Dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene Using Near-Edge X-ray Absorption Fine Structure. Journal of Physical Chemistry C, 2020, 124, 14195-14201.	1.5	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. Macromolecules, 2020, 53, 10623-10635.	2.2	17
13	Quantitative analysis of the electrostatic and electronic polarization energies in molecularly mixed films of organic semiconductors. Physical Review B, 2020, 102, .	1.1	6
14	Hybridization vs decoupling: influence of an h-BN interlayer on the physical properties of a lander-type molecule on Ni(111). Beilstein Journal of Nanotechnology, 2020, 11, 1168-1177.	1.5	10
15	Temperature-dependent band structure evolution determined by surface geometry in organic halide perovskite single crystals. Physical Review B, 2020, 102, .	1.1	9
16	Ground-state electron transfer in all-polymer donorâ€“acceptor heterojunctions. Nature Materials, 2020, 19, 738-744.	13.3	111
17	Structure-Dependent Electron Affinities of Perylene Diimide-Based Acceptors. Journal of Physical Chemistry C, 2020, 124, 9765-9773.	1.5	18
18	Alternative Face-on Thin Film Structure of Pentacene. Scientific Reports, 2019, 9, 579.	1.6	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. Applied Physics Letters, 2019, 114, .	1.5	4
20	Anatomy of the energetic driving force for charge generation in organic solar cells. Nature Communications, 2019, 10, 2520.	5.8	95
21	High sensitivity detection of the frontier electronic states of CH₃NH₃PbI₃ single crystals by low energy excitation. Applied Physics Express, 2019, 12, 051009.	1.1	10
22	Enhancement of Signal Intensity for Inverse Photoelectron Spectroscopy by Surface Plasmon Resonance of Ag Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 28789-28794.	1.5	5
23	The Evolution of Intermolecular Energy Bands of Occupied and Unoccupied Molecular States in Organic Thin Films. Journal of Physical Chemistry C, 2018, 122, 12090-12097.	1.5	19
24	Effects of end-on oriented polymer chains at the donor/acceptor interface in organic solar cells. Journal of Materials Chemistry A, 2018, 6, 22889-22898.	5.2	22
25	Photoelectron Spectroscopy of Molecular Anion of Alq3: An Estimation of Reorganization Energy for Electron Transport in the Bulk. ACS Omega, 2018, 3, 15200-15204.	1.6	2
26	Effects of Molecular Orientation of a Fullerene Derivative at the Donor/Acceptor Interface on the Device Performance of Organic Photovoltaics. Chemistry of Materials, 2018, 30, 8233-8243.	3.2	8
27	Structure control of a zinc tetraphenylporphyrin thin film by vapor annealing using fluorine containing solvent. Thin Solid Films, 2018, 665, 85-90.	0.8	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. Physical Review B, 2018, 97, .	1.1	47
29	Effect of end group of amorphous perfluoro-polymer electrets on electron trapping. Science and Technology of Advanced Materials, 2018, 19, 486-494.	2.8	25
30	Three-dimensional Ï€-conjugated compounds as non-fullerene acceptors in organic photovoltaics: the influence of acceptor unit orientation at phase interfaces on photocurrent generation efficiency. Journal of Materials Chemistry A, 2017, 5, 3932-3938.	5.2	21
31	Effects of the ambient exposure on the electronic states of the clean surface of the pentacene single crystal. Molecular Crystals and Liquid Crystals, 2017, 648, 216-222.	0.4	7
32	Charge transfer states appear in the Ï€-conjugated pure hydrocarbon molecule on Cu(111). Applied Physics Express, 2016, 9, 045201.	1.1	10
33	Implication of Fluorine Atom on Electronic Properties, Ordering Structures, and Photovoltaic Performance in Naphthobisthiadiazole-Based Semiconducting Polymers. Journal of the American Chemical Society, 2016, 138, 10265-10275.	6.6	319
34	Dithienylthienothiophenebisimide, a Versatile Electronâ€Ðeficient Unit for Semiconducting Polymers. Advanced Materials, 2016, 28, 6921-6925.	11.1	83
35	Principle and application of low energy inverse photoemission spectroscopy: A new method for measuring unoccupied states of organic semiconductors. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 116-124.	0.8	70
36	Crystallization-Induced Energy Level Change of [6,6]-Phenyl-C₆₁-Butyric Acid Methyl Ester (PCBM) Film: Impact of Electronic Polarization Energy. Journal of Physical Chemistry C, 2015, 119, 23-28.	1.5	44

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37	Electron affinities of organic materials used for organic light-emitting diodes: A low-energy inverse photoemission study. Organic Electronics, 2015, 20, 24-30.	1.4	86
38	Amorphous oxide alloys as interfacial layers with broadly tunable electronic structures for organic photovoltaic cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7897-7902.	3.3	41
39	Electron Transport in Bathocuproine Interlayer in Organic Semiconductor Devices. Journal of Physical Chemistry C, 2015, 119, 24459-24464.	1.5	50
40	Complete description of ionization energy and electron affinity in organic solids: Determining contributions from electronic polarization, energy band dispersion, and molecular orientation. Physical Review B, 2015, 92, .	1.1	101
41	Note: Low energy inverse photoemission spectroscopy apparatus. Review of Scientific Instruments, 2014, 85, 016101.	0.6	40
42	Measuring the electron affinity of organic solids: an indispensable new tool for organic electronics. Analytical and Bioanalytical Chemistry, 2014, 406, 2231-2237.	1.9	43
43	Electron-donor function of methanofullerenes in donorâ€“acceptor bulk heterojunction systems. Chemical Communications, 2014, 50, 4123-4125.	2.2	22
44	Low-Energy Inverse Photoemission Study on the Electron Affinities of Fullerene Derivatives for Organic Photovoltaic Cells. Journal of Physical Chemistry C, 2014, 118, 24377-24382.	1.5	86
45	Orientation-Dependent Electronic Structures and Charge Transport Mechanisms in Ultrathin Polymeric n-Channel Field-Effect Transistors. ACS Applied Materials & Interfaces, 2013, 5, 4417-4422.	4.0	74
46	Low-energy inverse photoemission spectroscopy using a high-resolution grating spectrometer in the near ultraviolet range. Review of Scientific Instruments, 2013, 84, 103901.	0.6	23
47	Electron affinity of pentacene thin film studied by radiation-damage free inverse photoemission spectroscopy. Applied Physics Letters, 2013, 103, .	1.5	61
48	New Experimental Method to Precisely Examine the LUMO Levels of Organic Semiconductors and Application to the Fullerene Derivatives. Materials Research Society Symposia Proceedings, 2013, 1493, 295-301.	0.1	13
49	Electronic Structure of the Buried Interface Between an Organic Semiconductor, <I>N,N</I>â€²-Bis(3-methylphenyl)-<I>N,N</I>â€²-Diphenylbenzidine (TPD), and Metal Surfaces. Journal of Nanoscience and Nanotechnology, 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. Journal of Physical Chemistry C, 2012, 116, 10033-10038.	1.5	13
51	Core level energy differences between the surface and bulk of organic semiconductor films: The effect of electrostatic polarization energy. Synthetic Metals, 2012, 161, 2549-2553.	2.1	7
52	Near-ultraviolet inverse photoemission spectroscopy using ultra-low energy electrons. Chemical Physics Letters, 2012, 539-540, 180-185.	1.2	124
53	Molecular orientation analysis of organic thin films by zâ€polarization Raman microscope. Journal of Raman Spectroscopy, 2012, 43, 2029-2034.	1.2	30
54	Decay Mechanism of Spontaneously Built-up Surface Potential in a Thin Film of a Zwitterionic Molecule Having Noncentrosymmetric Crystal Structure. Journal of Physical Chemistry C, 2011, 115, 2356-2359.	1.5	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. Chemical Physics Letters, 2011, 511, 146-150.	1.2	9
56	Spontaneous buildup of surface potential with a thin film of a zwitterionic molecule giving noncentrosymmetric crystal structure. Applied Physics Letters, 2009, 95, 182901.	1.5	4
57	Electronic structure of bis(benzo)pentathienoacene in gas andÂsolid phase: ultraviolet photoemission spectroscopy andÂenergyÂbandÂcalculation. Applied Physics A: Materials Science and Processing, 2009, 95, 185-191.	1.1	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. Journal of Molecular Structure, 2009, 920, 52-60.	1.8	2
59	Reversible polymorphic crystalline transition of a pushâ€“pull-type molecule: {4-[4,5-bis(methylsulfanyl)-1,3-dithiol-2-ylidene]cyclohexa-2,5-dien-1-ylidene}malononitrile (BMDCM). Journal of Molecular Structure, 2009, 922, 30-34.	1.8	1
60	Valence-Tautomeric Ionic Liquid Composed of a Cobalt Bis(dioxolene) Complex Dianion. Inorganic Chemistry, 2009, 48, 9989-9991.	1.9	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. Journal of Physical Chemistry A, 2009, 113, 9207-9212.	1.1	14
62	Solvent-Dependent Structural and Electronic Behaviors of a Pushâ˜'Pull Molecule: {4-[4,5-Bis(methylsulfanyl)-1,3-dithiol-2-ylidene]cyclohexa-2,5-dien-1-ylidene}malononitrile. Journal of Physical Chemistry A, 2009, 113, 9174-9179.	1.1	3
63	Electronic structure of disjoint diradical 4,4â€²-bis(1,2,3,5-dithiadiazolyl) thin films. Physical Chemistry Chemical Physics, 2009, 11, 11432.	1.3	9
64	Electronic structure of 1,3,5-trithia-2,4,6-triazapentalenyl on gold. Chemical Physics Letters, 2008, 451, 58-62.	1.2	3
65	Ultraviolet photoelectron spectroscopy and inverse photoemission spectroscopy of [6,6]-phenyl-C61-butyric acid methyl ester in gas and solid phases. Journal of Applied Physics, 2008, 104, .	1.1	105
66	Electronic structure of frontier states in an evaporated thin film of a highly amphoteric and polar molecule. Synthetic Metals, 2008, 158, 934-938.	2.1	2
67	Crystallographic and electronic structures of three different polymorphs of pentacene. Physical Review B, 2008, 77, .	1.1	108
68	Aluminum diffusion and reaction in thin films of perylene-3,4,9,10-tetracarboxylic dianhydride: Depth profiles and time-dependent diffusion coefficients. Applied Physics Letters, 2007, 91, 141915.	1.5	23
69	X-ray diffraction reciprocal space mapping study of the thin film phase of pentacene. Applied Physics Letters, 2007, 90, 181930.	1.5	155
70	Deposition of Acrylonitrile Cluster Ions on Solid Substrates:Â Thin Film Formation by Intracluster Polymerization Products. Journal of Physical Chemistry B, 2006, 110, 4232-4239.	1.2	6
71	Grazing-incidence x-ray diffraction study of pentacene thin films with the bulk phase structure. Applied Physics Letters, 2006, 89, 101919.	1.5	56
72	Electronic structures of unoccupied states in lithium phthalocyanine thin films of different polymorphs studied by IPES. Applied Surface Science, 2003, 212-213, 438-440.	3.1	7

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73	Unoccupied electronic states in a hexatriacontane thin film studied by inverse photoemission spectroscopy. Chemical Physics Letters, 2002, 361, 367-373.	1.2	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 Tf Phenomena, 2001, 121, 83-91.	0.8	40
75	Molecular Orbital Calculations of Nonlinear Optical Parameters for Test Molecules of a Highly Amphoteric and Polar Molecule (HAPM). Molecular Crystals and Liquid Crystals, 2001, 355, 319-329.	0.3	3
76	Unoccupied electronic structure in organic thin films studied by inverse photoemission spectroscopy. Journal of Materials Chemistry, 1999, 10, 85-89.	6.7	25
77	Electronic structure of vanadium cluster anions as studied by photoelectron spectroscopy. Journal of Chemical Physics, 1997, 106, 2182-2187.	1.2	45
78	PHOTOELECTRON SPECTROSCOPY OF ${m{Co}}_n^-$ AND PRODUCT ANIONS OF ${m{Co}}_n^-$ WITH O2 AND N2. Surface Review and Letters, 1996, 03, 667-670.	0.5	3
79	Spinâ€polarized electronic structure of cobalt cluster anions studied by photoelectron spectroscopy. Journal of Chemical Physics, 1995, 102, 5960-5965.	1.2	63
80	Photoelectron spectroscopy of (CO2)nH2Oâ^' (2â©½nâ©½8) clusters. Chemical Physics Letters, 1992, 199, 205-210.	1.2	16