

Kouki Akaike

List of Publications by Year in descending order

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39
papers

1,487
citations

471509

17
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

2576
citing authors

#	ARTICLE	IF	CITATIONS
1	An autonomous actuator driven by fluctuations in ambient humidity. <i>Nature Materials</i> , 2016, 15, 1084-1089.	27.5	331
2	Metal-intercalated aromatic hydrocarbons: a new class of carbon-based superconductors. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16476.	2.8	198
3	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
4	Determination of electron affinity of electron accepting molecules. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 309-313.	2.3	104
5	Energy-level alignment at organic heterointerfaces. <i>Science Advances</i> , 2015, 1, e1501127.	10.3	103
6	Characterizing Electronic Structure near the Energy Gap of Graphitic Carbon Nitride Based on Rational Interpretation of Chemical Analysis. <i>Chemistry of Materials</i> , 2018, 30, 2341-2352.	6.7	89
7	Propeller-Shaped Fused Oligothiophenes: A Remarkable Effect of the Topology of Sulfur Atoms on Columnar Stacking. <i>Journal of the American Chemical Society</i> , 2013, 135, 18268-18271.	13.7	71
8	Impact of Ground-State Charge Transfer and Polarization Energy Change on Energy Band Offsets at Donor/Acceptor Interface in Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2010, 20, 715-721.	14.9	59
9	Accessing Surface Brillouin Zone and Band Structure of Picene Single Crystals. <i>Physical Review Letters</i> , 2012, 108, 226401.	7.8	55
10	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.	3.1	39
11	Characteristics of conjugated hydrocarbon based thin film transistor with ionic liquid gate dielectric. <i>Organic Electronics</i> , 2011, 12, 2076-2083.	2.6	32
12	The Impact of Disorder on the Energy Level Alignment at Molecular Donor-Acceptor Interfaces. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500232.	3.7	31
13	Correlation between energy level alignment and device performance in planar heterojunction organic photovoltaics. <i>Organic Electronics</i> , 2013, 14, 1-7.	2.6	29
14	Effective Work Function Reduction of Practical Electrodes Using an Organometallic Dimer. <i>Advanced Functional Materials</i> , 2016, 26, 2493-2502.	14.9	28
15	Bicyclic-ring base doping induces n-type conduction in carbon nanotubes with outstanding thermal stability in air. <i>Nature Communications</i> , 2022, 13, .	12.8	26
16	Elucidation of the enhanced photoactivity of melon calcined with MoO ₃ . <i>Applied Catalysis B: Environmental</i> , 2020, 273, 119068.	20.2	21
17	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.	7.8	18
18	Advanced understanding on electronic structure of molecular semiconductors and their interfaces. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EA03.	1.5	18

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19	Incommensurate Crystalline phase of <i>n</i> -Alkane Monolayers on Graphite (0001). Journal of Physical Chemistry C, 2011, 115, 5720-5725.	3.1	17
20	Side chain effect on electronic structure of spin-coated films of [6,6]-phenyl-C61-butyric acid methyl ester and its bis-adduct. Chemical Physics, 2013, 415, 31-35.	1.9	12
21	Influence of side chain of [6,6]-phenyl-C61-butyric acid methyl ester on interfacial electronic structure of [6,6]-phenyl-C61-butyric acid methyl ester /Ag substrate. Applied Physics Letters, 2009, 94, 043309.	3.3	10
22	Lateral Inhomogeneity in the Electronic Structure of a Conjugated Poly(3-hexylthiophene) Thin Film. Advanced Functional Materials, 2010, 20, 2046-2052.	14.9	9
23	Electronic structure and surface morphology of [6,6]-phenyl-C71-butyric acid methyl ester films. Organic Electronics, 2013, 14, 3222-3227.	2.6	9
24	Structural Disordering upon Formation of Molecular Heterointerfaces. Journal of Physical Chemistry C, 2019, 123, 12242-12248.	3.1	9
25	Unoccupied states in copper phthalocyanine/fullerene blended films determined by inverse photoemission spectroscopy. Organic Electronics, 2010, 11, 1853-1857.	2.6	8
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.	6.7	8
27	Influence of ionization energy change on valence band offset in organic p-n junction. Applied Physics Letters, 2009, 95, 113306.	3.3	7
28	Electroluminescence from sodium-doped polymeric carbon nitride film. Chemical Physics Letters, 2020, 749, 137475.	2.6	7
29	An electron-accepting molecular unit exhibiting an orientational preference favorable for organic photovoltaic applications. Thin Solid Films, 2015, 583, 34-39.	1.8	6
30	Tetrathiafulvalene Hybridized with Indacenetetraone as Visible-light-harvesting Electron Acceptor Applicable to Bulk-heterojunction Organic Photovoltaics. Chemistry Letters, 2013, 42, 1417-1419.	1.3	5
31	A comprehensive and unified picture of energy level alignment at interfaces with organic semiconductors. , 2016, , .		4
32	Morphological phase diagrams of C60 and C70 films on graphite. Surface Science, 2017, 664, 222-225.	1.9	4
33	Distributions of Potential and Contact-Induced Charges in Conventional Organic Photovoltaics. Materials, 2020, 13, 2411.	2.9	4
34	H ₂ O-Induced Crystallization of Organic Luminescent Thin Films by Direct Film Storage in a High Vacuum. Journal of Physical Chemistry C, 2020, 124, 24919-24929.	3.1	3
35	Relationship between the surface structure of the gate insulator and the performance of organic thin-film transistors. Organic Electronics, 2020, 86, 105928.	2.6	3
36	Solar Cell Applications of π -Conjugated Molecules. , 2019, , 293-332.		2

#	ARTICLE	IF	CITATIONS
37	Chemical reactions of graphitic carbon nitride films with glass surfaces and their impact on photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 17504-17515.	2.8	2
38	Penning ionization electron and ultraviolet photoelectron spectroscopy of ultrathin bis(l,2-benzoquinonedioximato)platinum(II) films. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 156-158, 351-356.	1.7	1
39	Impact on electronic structure of donor/acceptor blend in organic photovoltaics by decontamination of molybdenum-oxide surface. <i>Journal of Applied Physics</i> , 2018, 123, 205501.	2.5	0