Akihito Imanishi

List of Publications by Year
in descending order

33 papers	798 citations	623734 14 h-index	501196 28 g-index
33 all docs	33 docs citations	33 times ranked	1178 citing authors

#	Article	IF	Citations
1	<i>Operando</i> atomic force microscopy study of electric double-layer transistors based on ionic liquid/rubrene single crystal interfaces. Applied Physics Letters, 2021, 118, .	3.3	5
2	Interpretation and Use of Mott-Schottky Plots at the Semiconductor-liquid Interfaces. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 479-486.	0.2	0
3	Ionic-Liquid-Originated Carrier Trapping Dynamics at the Interface in Electric Double-Layer Organic FET Revealed by Operando Interfacial Analyses. Journal of Physical Chemistry C, 2020, 124, 2543-2552.	3.1	12
4	Lithium-ion battery performance enhanced by the combination of Si thin flake anodes and binary ionic liquid systems. Materials Advances, 2020, 1, 625-631.	5.4	9
5	Rapid improvements in charge carrier mobility at ionic liquid/pentacene single crystal interfaces by self-cleaning. Physical Chemistry Chemical Physics, 2020, 22, 6131-6135.	2.8	6
6	Microscopic properties of ionic liquid/organic semiconductor interfaces revealed by molecular dynamics simulations. Physical Chemistry Chemical Physics, 2018, 20, 13075-13083.	2.8	13
7	Structural Effects on the Incident Photon-to-Current Conversion Efficiency of Zn Porphyrin Dyes on the Low-Index Planes of TiO₂. ACS Omega, 2017, 2, 128-135.	3.5	7
8	Gradual improvements of charge carrier mobility at ionic liquid/rubrene single crystal interfaces. Applied Physics Letters, 2016, 108, .	3.3	13
9	Fine Patterning of Silver Metal by Electron Beam Irradiation onto Room-temperature Ionic Liquid. Chemistry Letters, 2015, 44, 312-314.	1.3	8
10	Molecularly clean ionic liquid/rubrene single-crystal interfaces revealed by frequency modulation atomic force microscopy. Physical Chemistry Chemical Physics, 2015, 17, 6794-6800.	2.8	17
11	Clean surface processing of rubrene single crystal immersed in ionic liquid by using frequency modulation atomic force microscopy. Applied Physics Letters, 2014, 104, .	3.3	15
12	Influence of Surface Roughening of Rutile Single-Crystalline TiO₂ on Photocatalytic Activity for Oxygen Photoevolution from Water in Acidic and Alkaline Solutions. Journal of Physical Chemistry C, 2014, 118, 5406-5413.	3.1	22
13	Atomic-Scale Surface Local Structure of TiO₂ and Its Influence on the Water Photooxidation Process. Journal of Physical Chemistry Letters, 2014, 5, 2108-2117.	4.6	25
14	Three-dimensional micro/nano-scale structure fabricated by combination of non-volatile polymerizable RTIL and FIB irradiation. Scientific Reports, 2014, 4, 3722.	3.3	24
15	Preferential Formation of Layered Structure of Ionic Liquid at Ionic Liquid Aqueous Solution / Graphite Electrode Interfaces Observed by Frequency-Modulation Atomic Force Microscopy. E-Journal of Surface Science and Nanotechnology, 2014, 12, 89-96.	0.4	8
16	Structural investigation of ionic liquid/rubrene single crystal interfaces by using frequency-modulation atomic force microscopy. Chemical Communications, 2013, 49, 10596.	4.1	38
17	Introduction of Ionic Liquid to Vacuum Conditions for Development of Material Productions and Analyses. Electrochemistry, 2012, 80, 498-503.	1.4	5
18	Platinum nanoparticle immobilization onto carbon nanotubes using Pt-sputtered room-temperature ionic liquid. RSC Advances, 2012, 2, 8262.	3.6	59

#	Article	IF	Citations
19	Preparation of gold nanoparticles using reactive species produced in room-temperature ionic liquids by accelerated electron beam irradiation. RSC Advances, 2012, 2, 11801.	3.6	15
20	Photoinduced Reactions on Atomically Flat TiO₂ Single Crystal Surface in Aqueous Solution. Hyomen Kagaku, 2012, 33, 328-333.	0.0	0
21	Size and shape of Au nanoparticles formed in ionic liquids by electron beam irradiation. Physical Chemistry Chemical Physics, 2011, 13, 14823.	2.8	39
22	In-situ MIR-IR Observation of Peroxo Species on Anatase TiO2 Particle during Oxygen Photoevolution Reaction. Electrochemistry, 2011, 79, 787-789.	1.4	7
23	Efficient Solar Water Splitting with a Composite â€œ<i>n</i>-Si/<i>p</i>-CuI/<i>n-i-p</i> a-Si/<i>n-p</i> GaP/RuO₂â€•Semiconductor Electrode. Journal of Physical Chemistry C, 2009, 113, 14575-14581.	3.1	46
24	Pretreatment Dependence of Adsorption Properties of Merocyanine Dye at Rutile (110) and (100) TiO₂ Surfaces Studied by C K-Edge NEXAFS. Journal of Physical Chemistry C, 2009, 113, 17254-17261.	3.1	9
25	Formation of Au nanoparticles in an ionic liquid by electron beam irradiation. Chemical Communications, 2009, , 1775.	4.1	79
26	Highly active photocatalyst BixTiyVxO4x+2y(xâ‰ˆy) for oxygen evolution under visible-light illumination. Physica Status Solidi (B): Basic Research, 2008, 245, 1807-1815.	1.5	9
27	Si(111) Surface Modified with Î±,Î²-Unsaturated Carboxyl Groups Studied by MIR-FTIR. Langmuir, 2008, 24, 10755-10761.	3.5	16
28	In Situ AFM Studies on Self-Assembled Monolayers of Adsorbed Surfactant Molecules on Well-Defined H-Terminated Si(111) Surfaces in Aqueous Solutions. Langmuir, 2007, 23, 12966-12972.	3.5	10
29	Mechanism of Water Photooxidation Reaction at Atomically Flat TiO₂ (Rutile) (110) and (100) Surfaces:â€‰ Dependence on Solution pH. Journal of the American Chemical Society, 2007, 129, 11569-11578.	13.7	236
30	In-situ FTIR Studies on Self-Assembled Monolayers of Surfactant Molecules Adsorbed on H-Terminated Si(111) Surfaces in Aqueous Solutions. Langmuir, 2006, 22, 1706-1710.	3.5	10
31	Crystal-Face Dependence and Photoetching-Induced Increases of Dye-Sensitized Photocurrents at Single-Crystal Rutile TiO2Surfaces. Journal of Physical Chemistry B, 2006, 110, 21050-21054.	2.6	20
32	Temperature Dependence of Formation of Nanorods and Dots of Iodine Compounds on an H-Terminated Si(111) Surface in a Concentrated HI Solution. Langmuir, 2004, 20, 4604-4608.	3.5	6
33	Nano-Sized Structures on Atomically-Flat Semiconductor and Metal Surfaces, Formed by Chemical and Electrochemical Methods. Electrochemistry, 2000, 68, 556-561.	1.4	10