

Yoshihiro Nakato

List of Publications by Year in descending order

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papers

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citations

567281

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docs citations

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1731
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism for Visible Light Responses in Anodic Photocurrents at N-Doped TiO ₂ Film Electrodes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10617-10620.	2.6	601
2	Absolute potential of the Fermi level of isolated single-walled carbon nanotubes. <i>Physical Review B</i> , 2003, 68, .	3.2	151
3	The Catalytic Effect of Electrodeposited Metals on the Photo-Reduction of Water at α -Type Semiconductors. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1976, 80, 1289-1293.	0.9	96
4	A New Photovoltaic Effect Observed for Metal-coated Semiconductor Electrodes and Its Utilization for the Photolysis of Water. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1976, 80, 1002-1007.	0.9	71
5	Observation of Cathodic Photocurrents at Nanocrystalline TiO ₂ Film Electrodes, Caused by Enhanced Oxygen Reduction in Alkaline Solutions. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5878-5885.	2.6	62
6	Metal-dependent conductance quantization of nanocontacts in solution. <i>Applied Physics Letters</i> , 2002, 81, 123-125.	3.3	60
7	Efficient Solar Water Splitting with a Composite α -Si _n -p-CuI _n -i-p- α -Si _n -p GaP/RuO ₂ -Semiconductor Electrode. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14575-14581.	3.1	46
8	A mild and efficient Si (111) surface modification via hydrosilylation of activated alkynes. <i>Journal of Materials Chemistry</i> , 2005, 15, 4906.	6.7	40
9	Photoinduced Structural Changes of Silver Nanoparticles on Glass Substrate in Solution under an Electric Field. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3041-3045.	2.6	35
10	The Photoelectrochemical Behavior of an α -TiO ₂ Electrode Coated with a Thin Metal Film, as Revealed by Measurements of the Potential of the Metal Film. <i>Israel Journal of Chemistry</i> , 1982, 22, 180-183.	2.3	33
11	Preparation of a Langmuir-Blodgett Layer of Ultrafine Platinum Particles and Its Application to α -Si Efficient Photoelectrochemical Solar Cells. <i>Journal of the Electrochemical Society</i> , 1994, 141, 3077-3081.	2.9	27
12	Sustainable metal nano-contacts showing quantized conductance prepared at a gap of thin metal wires in solution. <i>Chemical Communications</i> , 2001, , 2170-2171.	4.1	27
13	Surface Intermediates of an α -Type Gallium Phosphide Electrode as Related with the Shifts of the Surface Band Energy Induced by Oxidants in Solution. <i>Journal of the Electrochemical Society</i> , 1981, 128, 1300-1304.	2.9	23
14	Improvement in Photovoltage and Stability of Porous n-Si Electrodes Coated with Platinum by Regulation of the Thickness of Nanoporous Layers. <i>Journal of Physical Chemistry B</i> , 1997, 101, 4508-4513.	2.6	23
15	Remarkably high photovoltages generated at α -type silicon semiconductor electrodes coated with extremely small platinum islands. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1987, 91, 405-408.	0.9	18
16	A composite semiconductor photoanode for water electrolysis. <i>Nature</i> , 1982, 295, 312-313.	27.8	15
17	The effect of interposing thin oxide layers on the photovoltaic properties of α -Si:H solar cells II between the middle and layers of a tandem α -type cell. <i>Journal of Applied Physics</i> , 1988, 64, 394-398.	2.5	14
18	Photocatalytic stereoselective N-cyclization of 2,6-diaminopimelic acid into piperidine-2,6-dicarboxylic acid by an aqueous suspension of activated cadmium(II) sulfide particles. <i>Perkin Transactions II RSC</i> , 2001, , 201-209.	1.1	10

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19	Nano-Sized Structures on Atomically-Flat Semiconductor and Metal Surfaces, Formed by Chemical and Electrochemical Methods. <i>Electrochemistry</i> , 2000, 68, 556-561.	1.4	10
20	Pretreatment Dependence of Adsorption Properties of Merocyanine Dye at Rutile (110) and (100) TiO ₂ Surfaces Studied by C K-Edge NEXAFS. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17254-17261.	3.1	9
21	A Coupled Map Lattice Model for Oscillatory Growth in Electrodeposition. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 114002.	1.6	7
22	In Situ Probing of Dynamic Nanostructural Change of Electrodeposits in the Course of Oscillatory Growth Using SERS. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3216-3219.	3.1	6
23	n-type amorphous (or microcrystalline) silicon/p-type crystalline silicon heterojunction electrodes for efficient and stable solar-to-chemical conversion. <i>Journal of Applied Physics</i> , 1988, 64, 1513-1518.	2.5	4
24	Effect of metal/p-doped a-Si:H junctions on the photovoltage of a-Si:H solar cells. <i>Journal of Applied Physics</i> , 1987, 62, 3424-3426.	2.5	3
25	Nonlinear Phenomena. Modulation of Electrochemical Oscillations in an H ₂ O ₂ -H ₂ SO ₄ -Pt System by External Potential Pulses.. <i>Kagaku Kagaku Ronbunshu</i> , 1999, 25, 510-515.	0.3	2
26	Photo-induced Surface Dissolution of Titanium Dioxide Particles in Sulfuric Acid Solution. <i>Electrochemistry</i> , 2002, 70, 457-459.	1.4	2
27	Improvement of amorphous silicon solar cells by electrochemical treatments. <i>Journal of Applied Physics</i> , 1987, 61, 1648-1649.	2.5	1
28	A Mechanism of the Increase of Entropy in an Isolated Macroscopic System. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 024003.	1.6	1
29	New Developments in Chemical Wet Processes. Electrochemical Deposition of Metal Particles on Si Electrodes for Efficient Photoelectrochemical Solar Cells.. <i>Hyomen Kagaku</i> , 2001, 22, 357-363.	0.0	1
30	Frontiers of Photo-catalysis and Photo-reaction at Solid Surfaces. Efficient Solar-to-Chemical Conversion by Use of an n-Si Chip with Surface-Band Asymmetry.. <i>Hyomen Kagaku</i> , 1999, 20, 102-107.	0.0	1
31	Self-organized Formation of Nano-structures on Solid Surfaces by Nonlinear Electrochemical Oscillations (I). <i>Hyomen Kagaku</i> , 2005, 26, 694-699.	0.0	0
32	Direct Construction of Thermodynamic Laws from Quantum Mechanics. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 064002.	1.6	0
33	Fabrication of Sustainable Metal Nanocontact in Solution. <i>Hyomen Kagaku</i> , 2004, 25, 91-97.	0.0	0
34	Self-organized Formation of Nano-structures on Solid Surfaces by Nonlinear Electrochemical Oscillations (II). <i>Hyomen Kagaku</i> , 2005, 26, 757-761.	0.0	0
35	Oscillatory Electrodeposition and Formation of Alloy Multilayers Induced by a Phase Transition of Adsorbed Surfactants at the Electrode Surface. <i>Hyomen Kagaku</i> , 2006, 27, 408-413.	0.0	0
36	Photoelectrochemistry at semiconductor surfaces.. <i>Hyomen Kagaku</i> , 1987, 8, 518-524.	0.0	0