

# Yoshihiro Nakato

## List of Publications by Year in descending order

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36  
papers

1,400  
citations

567281

15  
h-index

477307

29  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1731  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mechanism of the Increase of Entropy in an Isolated Macroscopic System. Journal of the Physical Society of Japan, 2021, 90, 024003.	1.6	1
2	Direct Construction of Thermodynamic Laws from Quantum Mechanics. Journal of the Physical Society of Japan, 2021, 90, 064002.	1.6	0
3	Efficient Solar Water Splitting with a Composite $\alpha$ -Si <sub>n</sub> -p <sub>i</sub> -Cul <sub>n</sub> -i-p <sub>i</sub> - $\alpha$ -Si <sub>n</sub> -p <sub>i</sub> -GaP/RuO <sub>2</sub> Semiconductor Electrode. Journal of Physical Chemistry C, 2009, 113, 14575-14581.	3.1	46
4	Pretreatment Dependence of Adsorption Properties of Merocyanine Dye at Rutile (110) and (100) TiO <sub>2</sub> Surfaces Studied by C K-Edge NEXAFS. Journal of Physical Chemistry C, 2009, 113, 17254-17261.	3.1	9
5	In Situ Probing of Dynamic Nanostructural Change of Electrodeposits in the Course of Oscillatory Growth Using SERS. Journal of Physical Chemistry C, 2007, 111, 3216-3219.	3.1	6
6	A Coupled Map Lattice Model for Oscillatory Growth in Electrodeposition. Journal of the Physical Society of Japan, 2006, 75, 114002.	1.6	7
7	Oscillatory Electrodeposition and Formation of Alloy Multilayers Induced by a Phase Transition of Adsorbed Surfactants at the Electrode Surface. Hyomen Kagaku, 2006, 27, 408-413.	0.0	0
8	Self-organized Formation of Nano-structures on Solid Surfaces by Nonlinear Electrochemical Oscillations (I). Hyomen Kagaku, 2005, 26, 694-699.	0.0	0
9	A mild and efficient Si (111) surface modification via hydrosilylation of activated alkynes. Journal of Materials Chemistry, 2005, 15, 4906.	6.7	40
10	Self-organized Formation of Nano-structures on Solid Surfaces by Nonlinear Electrochemical Oscillations (II). Hyomen Kagaku, 2005, 26, 757-761.	0.0	0
11	Mechanism for Visible Light Responses in Anodic Photocurrents at N-Doped TiO <sub>2</sub> Film Electrodes. Journal of Physical Chemistry B, 2004, 108, 10617-10620.	2.6	601
12	Fabrication of Sustainable Metal Nanocontact in Solution. Hyomen Kagaku, 2004, 25, 91-97.	0.0	0
13	Absolute potential of the Fermi level of isolated single-walled carbon nanotubes. Physical Review B, 2003, 68, .	3.2	151
14	Photoinduced Structural Changes of Silver Nanoparticles on Glass Substrate in Solution under an Electric Field. Journal of Physical Chemistry B, 2002, 106, 3041-3045.	2.6	35
15	Observation of Cathodic Photocurrents at Nanocrystalline TiO <sub>2</sub> Film Electrodes, Caused by Enhanced Oxygen Reduction in Alkaline Solutions. Journal of Physical Chemistry B, 2002, 106, 5878-5885.	2.6	62
16	Metal-dependent conductance quantization of nanocontacts in solution. Applied Physics Letters, 2002, 81, 123-125.	3.3	60
17	Photo-induced Surface Dissolution of Titanium Dioxide Particles in Sulfuric Acid Solution. Electrochemistry, 2002, 70, 457-459.	1.4	2
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. Perkin Transactions II RSC, 2001, , 201-209.	1.1	10

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Nonlinear Phenomena. Modulation of Electrochemical Oscillations in an H <sub>2</sub> O <sub>2</sub> -H <sub>2</sub> SO <sub>4</sub> -Pt System by External Potential Pulses.. <i>Kagaku Kogaku Ronbunshu</i> , 1999, 25, 510-515.	0.3	2
23	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
24	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
25	Preparation of a Langmuir-Blodgett Layer of Ultrafine Platinum Particles and Its Application to n-Si for Efficient Photoelectrochemical Solar Cells. <i>Journal of the Electrochemical Society</i> , 1994, 141, 3077-3081.	2.9	27
26	The effect of interposing thin oxide layers on the photovoltaic properties of a-Si:H solar cells II between the middle and layers of a tandem-type cell. <i>Journal of Applied Physics</i> , 1988, 64, 394-398.	2.5	14
27	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
28	Improvement of amorphous silicon solar cells by electrochemical treatments. <i>Journal of Applied Physics</i> , 1987, 61, 1648-1649.	2.5	1
29	Remarkably high photovoltages generated at n-type silicon semiconductor electrodes coated with extremely small platinum islands. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1987, 91, 405-408.	0.9	18
30	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
31	Photoelectrochemistry at semiconductor surfaces.. <i>Hyomen Kagaku</i> , 1987, 8, 518-524.	0.0	0
32	The Photoelectrochemical Behavior of an n-TiO <sub>2</sub> 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
33	A composite semiconductor photoanode for water electrolysis. <i>Nature</i> , 1982, 295, 312-313.	27.8	15
34	Surface Intermediates of an n-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
35	The Catalytic Effect of Electrodeposited Metals on the Photo-reduction of Water at p-type Semiconductors. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1976, 80, 1289-1293.	0.9	96
36	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