

Ansoon Kim

List of Publications by Year in descending order

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53
papers

1,699
citations

361413

20
h-index

276875

41
g-index

53
all docs

53
docs citations

53
times ranked

2960
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling N and C-atom densities in N ₂ /H ₂ and N ₂ /CH ₄ microwave afterglows for selective TiO ₂ surface nitriding. Applied Surface Science, 2021, 540, 148348.	6.1	1
2	Absolute work function measurement by using photoelectron spectroscopy. Current Applied Physics, 2021, 31, 52-59.	2.4	45
3	Enhancement of Photoresponse on Narrow-Bandgap Mott Insulator RuCl_3 via Intercalation. ACS Nano, 2021, 15, 18113-18124.	14.6	10
4	Ionic Current Rectification of Porous Anodic Aluminum Oxide (AAO) with a Barrier Oxide Layer. ACS Nano, 2020, 14, 13727-13738.	14.6	22
5	Atomic Layer MoS ₂ xTe ₂ (1-x) Ternary Alloys: Two-Dimensional van der Waals Growth, Band gap Engineering, and Electrical Transport. ACS Applied Materials & Interfaces, 2020, 12, 40518-40524.	8.0	8
6	Phase-Selective Disordered Anatase/Ordered Rutile Interface System for Visible-Light-Driven, Metal-Free CO ₂ Reduction. ACS Applied Materials & Interfaces, 2019, 11, 35693-35701.	8.0	32
7	The role of hydrogen in the nitriding of anatase TiO ₂ films in the N ₂ -H ₂ microwave afterglows. Surface and Coatings Technology, 2019, 364, 341-346.	4.8	4
8	Efficiency improvement of Si quantum dot solar cells by activation with boron implantation. Solar Energy, 2018, 164, 89-93.	6.1	9
9	A study on selective surface nitridation of TiO ₂ nanocrystals in the afterglows of N ₂ and N ₂ -O ₂ microwave plasmas. Applied Surface Science, 2018, 432, 163-169.	6.1	5
10	Heterojunction solar cell based on n-MoS ₂ /p-InP. Optical Materials, 2018, 86, 576-581.	3.6	32
11	Thermal annealing of black phosphorus for etching and protection. Applied Surface Science, 2018, 457, 773-779.	6.1	17
12	Quantitative analysis of Si _{1-x} Gex alloy films by SIMS and XPS depth profiling using a reference material. Applied Surface Science, 2018, 432, 72-77.	6.1	11
13	The role of active species in the N ₂ and N ₂ -H ₂ RF afterglows on selective surface nitriding of ALD-grown TiO ₂ films. Surface and Coatings Technology, 2017, 324, 243-248.	4.8	7
14	Ultraviolet responses of a heterojunction Si quantum dot solar cell. Nanotechnology, 2017, 28, 035402.	2.6	5
15	Self-Heating-Induced Deterioration of Electromechanical Performance in Polymer-Supported Metal Films for Flexible Electronics. Scientific Reports, 2017, 7, 12506.	3.3	6
16	Elasticity-based development of functionally enhanced multicellular 3D liver encapsulated in hybrid hydrogel. Acta Biomaterialia, 2017, 64, 67-79.	8.3	34
17	Observation of temperature-dependent kinetics for catalytic CO oxidation over TiO ₂ -supported Pt catalysts. Chemical Physics Letters, 2017, 685, 282-287.	2.6	21
18	A spontaneous change in the oxidation states of Pd/WO ₃ toward an active phase during catalytic cycles of CO oxidation. Surface Science, 2017, 665, 43-50.	1.9	4

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19	Band engineering of a Si quantum dot solar cell by modification of B-doping profile. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 80-85.	6.2	14
20	Unexpected Chemical and Thermal Stability of Surface Oxynitride of Anatase TiO ₂ Nanocrystals Prepared in the Afterglow of N ₂ Plasma. <i>Applied Science and Convergence Technology</i> , 2017, 26, 62-65.	0.9	0
21	Improved electrical properties of silicon quantum dot layers for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2016, 150, 71-75.	6.2	10
22	Highly sensitive detection of cardiac troponin I in human serum using gold nanoparticle-based enhanced sandwich immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 537-543.	7.8	28
23	SERS-based pesticide detection by using nanofinger sensors. <i>Nanotechnology</i> , 2015, 26, 015502.	2.6	79
24	Deterministic nanoparticle assemblies: from substrate to solution. <i>Nanotechnology</i> , 2014, 25, 155302.	2.6	4
25	Selective transfer of nanostructured assemblies onto an arbitrary substrate by nanoimprinting. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
26	Fabrication of Deterministic Nanostructure Assemblies with Sub-nanometer Spacing Using a Nanoimprinting Transfer Technique. <i>ACS Nano</i> , 2012, 6, 6446-6452.	14.6	42
27	Melamine Sensing in Milk Products by Using Surface Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2012, 84, 9303-9309.	6.5	167
28	Photo selective protein immobilization using bovine serum albumin. <i>Applied Surface Science</i> , 2012, 261, 880-889.	6.1	5
29	Hot-Spot Engineering in Polygonal Nanofinger Assemblies for Surface Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2011, 11, 2538-2542.	9.1	180
30	Study of Molecular Trapping Inside Gold Nanofinger Arrays on Surface-Enhanced Raman Substrates. <i>Journal of the American Chemical Society</i> , 2011, 133, 8234-8239.	13.7	103
31	Analysis of configuration of surface-immobilized proteins by Si nanochannel field effect transistor biosensor. <i>Sensors and Actuators B: Chemical</i> , 2011, 154, 164-168.	7.8	6
32	Hybrid gold nanofinger SERS structure for sensing applications. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1359, 141.	0.1	0
33	Comparative Study of Silicon Quantum Dot Formation In-situ Grown with a Gas Mixture of SiH ₄ +N ₂ and SiH ₄ +NH ₃ . <i>Journal of the Korean Physical Society</i> , 2011, 59, 308-311.	0.7	2
34	Direct label-free electrical immunodetection in human serum using a flow-through-apparatus approach with integrated field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1767-1773.	10.1	77
35	Photosensitive biosensor array system using optical addressing without an addressing circuit on array biochips. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	11
36	Modified ion sensitive field effect transistor sensors having an extended gate on a thick dielectric. <i>Applied Physics Letters</i> , 2010, 96, 203702.	3.3	6

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37	Fabrication of Anionic Sulfate-Functionalized Nanoparticles as an Immunosensor by Protein Immobilization. <i>Langmuir</i> , 2010, 26, 7355-7364.	3.5	13
38	Response to Cardiac Markers in Human Serum Analyzed by Guided-Mode Resonance Biosensor. <i>Analytical Chemistry</i> , 2010, 82, 9686-9693.	6.5	44
39	Nanogap Array Fabrication Using Doubly Clamped Freestanding Silicon Nanowires and Angle Evaporations. <i>ETRI Journal</i> , 2009, 31, 351-356.	2.0	9
40	Control of channel doping concentration for enhancing the sensitivity of "top-down" fabricated Si nanochannel FET biosensors. <i>Nanotechnology</i> , 2009, 20, 475501.	2.6	15
41	Biosensors using the Si nanochannel junction-isolated from the Si bulk substrate. <i>Journal of Applied Physics</i> , 2009, 106, 114701.	2.5	4
42	Colorimetric Analysis on Flocculation of Bioinspired Au Self-Assembly for Biophotonic Application. <i>Journal of Nanomaterials</i> , 2009, 2009, 1-6.	2.7	4
43	Analysis of configuration of surface-immobilized proteins by Si nanochannel field effect transistor biosensor. <i>Procedia Chemistry</i> , 2009, 1, 674-677.	0.7	2
44	Discrimination of Chiral Adsorption Configurations: Styrene on Germanium(100). <i>Journal of Physical Chemistry C</i> , 2009, 113, 1426-1432.	3.1	10
45	Modified ISFETs having an extended gate on the thick dielectric. , 2009, , .		0
46	Enhanced Protein Immobilization Efficiency on a TiO ₂ Surface Modified with a Hydroxyl Functional Group. <i>Langmuir</i> , 2009, 25, 11692-11697.	3.5	45
47	Energy gap modulation in V ₂ O ₅ nanowires by gas adsorption. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	27
48	Configuration Specific Desorption by Scanning Tunneling Microscope in Organic-Semiconductor Hybrid Systems. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1493-1497.	3.1	3
49	Ultrasensitive, label-free, and real-time immunodetection using silicon field-effect transistors. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	229
50	Dissociative Chemisorption of Methanol on Ge(100). <i>Journal of Physical Chemistry C</i> , 2007, 111, 15013-15019.	3.1	37
51	Gadolinium Oxide Nanoring and Nanoplate: Anisotropic Shape Control. <i>Crystal Growth and Design</i> , 2007, 7, 1378-1380.	3.0	42
52	Bidentate Structures of Acetic Acid on Ge(100): The Role of Carboxyl Oxygen. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5941-5945.	3.1	23
53	Ambient Pressure Syntheses of Size-Controlled Corundum-type In ₂ O ₃ Nanocubes. <i>Journal of the American Chemical Society</i> , 2006, 128, 9326-9327.	13.7	185