

Yun-Mo Sung

List of Publications by Year in descending order

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92
papers

2,558
citations

147801

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93
docs citations

93
times ranked

3940
citing authors

#	ARTICLE	IF	CITATIONS
1	Detailed analyses on the role of nanobranches in photoelectrochemical performances of multiscale ZnO nanobranches. <i>Journal of Power Sources</i> , 2022, 533, 231385.	7.8	0
2	A novel strategy for enhancing photoelectrochemical performance of Ca ₂ Fe ₂ O ₅ photocathodes: An integrated experimental and DFT-based approach. <i>Applied Surface Science</i> , 2022, 589, 153012.	6.1	2
3	Photoelectrochemical water splitting using one-dimensional nanostructures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21576-21606.	10.3	23
4	Enhanced IR-driven photoelectrochemical responses of CdSe/ZnO heterostructures by up-conversion UV/visible light irradiation. <i>Nanoscale</i> , 2020, 12, 8525-8535.	5.6	12
5	Wet chemical growth of semiconductor 1-D nanostructure arrays on conductive substrates. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12019-12047.	5.5	5
6	Copper-Halide Polymer Nanowires as Versatile Supports for Single-Atom Catalysts. <i>Small</i> , 2019, 15, e1903197.	10.0	12
7	One-Dimensional Cuprous Selenide Nanostructures with Switchable Plasmonic and Superionic Phase Attributes. <i>Angewandte Chemie</i> , 2019, 131, 8498-8503.	2.0	1
8	One-Dimensional Cuprous Selenide Nanostructures with Switchable Plasmonic and Superionic Phase Attributes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8410-8415.	13.8	9
9	Enhanced photoelectrochemical properties of Z-scheme ZnO/p-n Cu ₂ O PV-PEC cells. <i>Journal of Alloys and Compounds</i> , 2019, 771, 869-876.	5.5	35
10	A Generalized Crystallographic Description of All Tellurium Nanostructures. <i>Advanced Materials</i> , 2018, 30, 1702701.	21.0	21
11	The formation of Z-scheme CdS/CdO nanorods on FTO substrates: The shell thickness effects on the flat band potentials. <i>Nano Energy</i> , 2017, 36, 176-185.	16.0	63
12	Photoelectrochemical Performance of CdS/ZnSe Core/Shell Nanorods Grown on FTO Substrates for Hydrogen Generation. <i>Journal of the Electrochemical Society</i> , 2017, 164, H382-H388.	2.9	6
13	Designing Metallic and Insulating Nanocrystal Heterostructures to Fabricate Highly Sensitive and Solution Processed Strain Gauges for Wearable Sensors. <i>Small</i> , 2017, 13, 1702534.	10.0	40
14	Spinodally Decomposed PbSe-PbTe Nanoparticles for High-Performance Thermoelectrics: Enhanced Phonon Scattering and Unusual Transport Behavior. <i>ACS Nano</i> , 2016, 10, 7197-7207.	14.6	44
15	Enhanced Photoelectrochemical Water Splitting of Micro-Arc Oxidized TiO ₂ via Anatase/Rutile Phase Control and Nitrogen Doping. <i>Journal of the Electrochemical Society</i> , 2016, 163, H278-H285.	2.9	14
16	Kinetic and structural analyses for the formation of anatase nanocrystals in barium titanoborate glasses. <i>Journal of Alloys and Compounds</i> , 2015, 647, 1022-1027.	5.5	5
17	Growth mechanism of vertically aligned SnSe nanosheets via physical vapour deposition. <i>CrystEngComm</i> , 2014, 16, 5080-5086.	2.6	76
18	Successive Solution-Liquid-Solid (SLS) Growth of Heterogeneous Nanowires. <i>Chemistry of Materials</i> , 2013, 25, 4156-4164.	6.7	8

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19	Variation in the structural and optical properties of ZnSe/ZnS core/shell nanocrystals with shell thickness. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	5
20	Fluorescent cholesterol sensing using enzyme-modified CdSe/ZnS quantum dots. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	29
21	Enhanced formation of PbSe nanorods via combined solution-liquid-solid growth and oriented attachment. <i>CrystEngComm</i> , 2012, 14, 1948.	2.6	10
22	Solution-liquid-solid growth of high-density CdTe nanowires on glass substrates and core/shell structure formation. <i>CrystEngComm</i> , 2012, 14, 389-392.	2.6	24
23	Nonlinear size-dependent melting of the silica-encapsulated silver nanoparticles. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	21
24	Enzyme-conjugated ZnO nanocrystals for collisional quenching-based glucose sensing. <i>CrystEngComm</i> , 2012, 14, 2859.	2.6	35
25	Crystallization kinetics of fluoride nanocrystals in oxyfluoride glasses. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 36-39.	3.1	32
26	Anatase phase formation kinetics in Ti and TiO _x nanoparticles produced by gas-phase condensation. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 182-187.	3.1	3
27	Synthesis of Anatase Nanosheets with Exposed (001) Facets via Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2012, 12, 5792-5795.	3.0	41
28	Enhanced glucose detection using enzyme-immobilized ZnO/ZnS core/sheath nanowires. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 453-459.	7.8	36
29	Synergistic effects of SPR and FRET on the photoluminescence of ZnO nanorod heterostructures. <i>Nanotechnology</i> , 2011, 22, 425708.	2.6	19
30	Synthesis of Cu-Doped TiO ₂ Nanorods with Various Aspect Ratios and Dopant Concentrations. <i>Crystal Growth and Design</i> , 2010, 10, 983-987.	3.0	107
31	Electrodeposition of Cu(In,Ga)Se ₂ Crystals on High-Density CdS Nanowire Arrays for Photovoltaic Applications. <i>Crystal Growth and Design</i> , 2010, 10, 5297-5301.	3.0	37
32	Synthesis of hybrid solar cells using CdS nanowire array grown on conductive glass substrates. <i>Electrochemistry Communications</i> , 2009, 11, 231-234.	4.7	75
33	Template-Free Liquid-Phase Synthesis of High-Density CdS Nanowire Arrays on Conductive Glass. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1615-1619.	3.1	52
34	The detection of platelet derived growth factor using decoupling of quencher-oligonucleotide from aptamer/quantum dot bioconjugates. <i>Nanotechnology</i> , 2009, 20, 175503.	2.6	50
35	Growth of CdS Nanorod-Coated TiO ₂ Nanowires on Conductive Glass for Photovoltaic Applications. <i>Crystal Growth and Design</i> , 2009, 9, 4519-4523.	3.0	94
36	Spectral broadening in quantum dots-sensitized photoelectrochemical solar cells based on CdSe and Mg-doped CdSe nanocrystals. <i>Electrochemistry Communications</i> , 2008, 10, 1699-1702.	4.7	67

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37	Coarsening Kinetics of Mn-Doped CdSe Nanocrystals. <i>Crystal Growth and Design</i> , 2008, 8, 1186-1190.	3.0	22
38	Growth and Optical Properties of Gallium Nitride Nanowires Produced via Different Routes. <i>Metals and Materials International</i> , 2008, 14, 353-356.	3.4	2
39	Surface Plasmon Resonance (SPR) Electron and Energy Transfer in Noble Metal-Zinc Oxide Composite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10079-10082.	3.1	208
40	Enhanced ripening behavior of Mg-doped CdSe quantum dots. <i>Journal of Materials Research</i> , 2008, 23, 1916-1921.	2.6	3
41	Formulation of Thermally Cured Organic-Inorganic Superhydrophilic Coating for Antifogging Optical Application. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 463, 117/[399]-129/[411].	0.9	10
42	Enhanced L10 chemical ordering and FePt-Fe ₃ O ₄ core/shell structure formation in Zn-doped FePt nanoparticles. <i>Applied Physics Letters</i> , 2007, 90, 173117.	3.3	9
43	Tuning the energy bandgap of CdSe nanocrystals via Mg doping. <i>Nanotechnology</i> , 2007, 18, 205702.	2.6	39
44	Ripening Kinetics of CdSe/ZnSe Core/Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1239-1242.	3.1	44
45	TiO ₂ /CdSe nanowire arrays showing visible-range light absorption. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	49
46	Enhanced Photochemical Response of TiO ₂ /CdSe Heterostructured Nanowires. <i>Crystal Growth and Design</i> , 2007, 7, 2588-2593.	3.0	56
47	Synthesis of Mn-doped zinc blende CdSe nanocrystals. <i>Applied Physics Letters</i> , 2007, 90, 173111.	3.3	36
48	The origin of enhanced L10 chemical ordering in Ag-doped FePt nanoparticles. <i>Chemical Physics Letters</i> , 2007, 443, 319-322.	2.6	18
49	One-step approach for nano-crystalline hydroxyapatite coating on titanium via micro-arc oxidation. <i>Electrochemistry Communications</i> , 2007, 9, 1886-1891.	4.7	110
50	Kinetic Analysis for Formation of Cd _{1-x} Zn _x Se Solid-Solution Nanocrystals. <i>Journal of the American Chemical Society</i> , 2006, 128, 9002-9003.	13.7	76
51	Lattice distortion and luminescence of CdSe/ZnSe nanocrystals. <i>Nanotechnology</i> , 2006, 17, 3539-3542.	2.6	76
52	Controlled Crystallization of Nanoporous and Core/Shell Structure Titania Photocatalyst Particles. <i>Crystal Growth and Design</i> , 2006, 6, 805-808.	3.0	40
53	Formation of titania photocatalyst films by microarc oxidation of Ti and Ti-Al alloys. <i>Electrochemistry Communications</i> , 2006, 8, 465-470.	4.7	82
54	Formation of nanoporous and nanocrystalline anatase films by pyrolysis of PEO/TiO ₂ hybrid films. <i>Journal of Crystal Growth</i> , 2006, 286, 173-177.	1.5	10

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55	Strong thickness dependence of aurivillius phase formation in SrBi ₂ Ta ₂ O ₉ thin films. Journal of Electroceramics, 2006, 17, 119-123.	2.0	1
56	Enhanced ionic conductivity in PEO-LiClO ₄ hybrid electrolytes by structural modification. Journal of Electroceramics, 2006, 17, 941-944.	2.0	39
57	Various one-dimensional GaN nanostructures formed by non-catalytic routes. Journal of Electroceramics, 2006, 17, 221-225.	2.0	5
58	Controlled growth of high-quality TiO ₂ nanowires on sapphire and silica. Nanotechnology, 2006, 17, 4317-4321.	2.6	94
59	Fluorite-to-Aurivillius phase transformation kinetics in sol-gel derived SBT thin films. Chemical Physics Letters, 2005, 411, 389-394.	2.6	5
60	The role of GaN/AlN double buffer layer in the crystal growth and photoluminescence of GaN nanowires. Chemical Physics Letters, 2005, 413, 479-483.	2.6	5
61	Anatase crystal growth and photocatalytic characteristics of hot water-treated polyethylene oxide-titania nanohybrids. Journal of Crystal Growth, 2004, 267, 312-316.	1.5	12
62	Growth and modulation of silicon carbide nanowires. Journal of Crystal Growth, 2004, 269, 472-478.	1.5	89
63	Enhanced Crystal Growth Kinetics in Cation-Doped Sr _{0.7} Bi _{2.3} Ta ₂ O ₉ Ferroelectric Thin Films. Crystal Growth and Design, 2004, 4, 325-329.	3.0	5
64	Controlled Morphology and Crystalline Phase of Poly(ethylene oxide)-TiO ₂ Nanohybrids. Crystal Growth and Design, 2004, 4, 737-742.	3.0	15
65	Title is missing!. Journal of Materials Science Letters, 2003, 22, 75-77.	0.5	2
66	Phase formation kinetics of nanoparticle-seeded strontium bismuth tantalate powder. Journal of Materials Science, 2003, 38, 1391-1396.	3.7	11
67	Suppression of pyrochlore phase formation in Sr _{0.7} Bi _{2.4} Ta ₂ O ₉ thin films using nanoseed layer. Journal of Materials Research, 2003, 18, 1745-1748.	2.6	8
68	Enhancement of Aurivillius Phase Formation Kinetics in SBT Thin Films using Nanoparticle Seeding. Materials Research Society Symposia Proceedings, 2003, 784, 11551.	0.1	0
69	Influence of nanoparticle seeding on the phase formation kinetics of sol-gel-derived Sr _{0.7} Bi _{2.4} Ta ₂ O ₉ thin films. Journal of Materials Research, 2003, 18, 387-395.	2.6	23
70	Kinetics of PbTiO ₃ perovskite phase formation via an interfacial reaction. Journal of Materials Research, 2002, 17, 407-412.	2.6	9
71	Crystallization Kinetics of Sol-gel-derived (1-x)SrBi ₂ Ta ₂ O ₉ -xBi ₃ TiTaO ₉ Ferroelectric Thin Films. Journal of Materials Research, 2002, 17, 1463-1468.	2.6	21
72	Influence of BaO Addition on the Phase Formation Characteristics in Li ₂ O-Al ₂ O ₃ -ZnO-SiO ₂ -TiO ₂ -ZrO ₂ Glass. Journal of Materials Research, 2002, 17, 517-520.		

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73	Phase formation kinetics in SrO-Al ₂ O ₃ -SiO ₂ -B ₂ O ₃ glass. Journal of Materials Science, 2002, 37, 699-703.	3.7	11
74	Influence of various heating procedures on the sintered density of Sr-celsian glass-ceramic. Journal of Materials Science Letters, 2002, 21, 841-843.	0.5	9
75	Crystallization characteristics of SrO-Al ₂ O ₃ -SiO ₂ -B ₂ O ₃ glass. Journal of Materials Science Letters, 2001, 20, 2235-2237.	0.5	1
76	Crystallization of celsian glasses of (SrO · Al ₂ O ₃ · 2SiO ₂)-(Al ₂ O ₃) pseudobinary compositions. Journal of Materials Science Letters, 2001, 20, 839-840.	0.5	4
77	Determination of interdiffusion coefficient of mullite formation reaction via kinetics analysis. Journal of Materials Science Letters, 2001, 20, 1433-1434.	0.5	10
78	Nonisothermal phase formation kinetics in sol-gel-derived strontium bismuth tantalate. Journal of Materials Research, 2001, 16, 2039-2044.	2.6	55
79	Sintering and crystallization of off-stoichiometric BaO·Al ₂ O ₃ ·2SiO ₂ glasses. Journal of Materials Science, 2000, 35, 4913-4918.	3.7	12
80	Sintering and crystallization of off-stoichiometric SrO·Al ₂ O ₃ ·2SiO ₂ glasses. Journal of Materials Science, 2000, 35, 4293-4299.	3.7	28
81	The role of precursor nuclei in the crystallization of aluminosilicate glasses. Journal of Materials Science Letters, 2000, 19, 675-677.	0.5	2
82	Title is missing!. Journal of Materials Science Letters, 2000, 19, 315-317.	0.5	4
83	Monocelsian formation in the SrO·Al ₂ O ₃ ·2SiO ₂ glass. Journal of Materials Science Letters, 2000, 19, 453-454.	0.5	5
84	Sintering and crystallization of (SrO·SiO ₂)-(SrO·Al ₂ O ₃ ·2SiO ₂) glass-ceramics. Journal of Materials Science, 1999, 34, 5803-5809.	3.7	12
85	Title is missing!. Journal of Materials Science, 1999, 34, 5127-5132.	3.7	4
86	Mechanical properties of off-stoichiometric celsian glass-ceramics. Journal of Materials Science Letters, 1999, 18, 1229-1232.	0.5	6
87	Mechanical properties of off-stoichiometric BaO·Al ₂ O ₃ ·2SiO ₂ glass-ceramics. Journal of Materials Science Letters, 1999, 18, 1657-1660.	0.5	5
88	Crystallization behaviour of calcium aluminate glass fibres. Journal of Materials Science, 1998, 33, 4733-4737.	3.7	16
89	Title is missing!. Journal of Materials Science, 1998, 33, 5255-5258.	3.7	6
90	Microindentation analysis of inviscid melt-spun ceramic fibres. Journal of Materials Science Letters, 1997, 16, 1804-1806.	0.5	3

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91	Calcium-alumina fibre reinforced β -spodumene glass-ceramic matrix composites. Journal of Materials Science Letters, 1997, 16, 1527-1529.	0.5	6
92	Title is missing!. Journal of Materials Science, 1997, 32, 1069-1073.	3.7	8