

# Alan Man Ching Ng

## List of Publications by Citations

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107  
papers

5,297  
citations

33  
h-index

71  
g-index

132  
ext. papers

6,025  
ext. citations

6  
avg, IF

5.67  
L-index

#	Paper	IF	Citations
107	ZnO nanostructures for optoelectronics: Material properties and device applications. <i>Progress in Quantum Electronics</i> , <b>2010</b> , 34, 191-259	9.1	788
106	ZnO nanostructures: growth, properties and applications. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6526		460
105	Mechanisms of antibacterial activity of MgO: non-ROS mediated toxicity of MgO nanoparticles towards Escherichia coli. <i>Small</i> , <b>2014</b> , 10, 1171-83	11	284
104	Toxicity of metal oxide nanoparticles: mechanisms, characterization, and avoiding experimental artefacts. <i>Small</i> , <b>2015</b> , 11, 26-44	11	250
103	Strategies for improving the efficiency of semiconductor metal oxide photocatalysis. <i>Materials Horizons</i> , <b>2014</b> , 1, 400	14.4	240
102	Tuning the absorption, charge transport properties, and solar cell efficiency with the number of thienyl rings in platinum-containing poly(aryleneethynylene)s. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 14372-80	16.4	231
101	Is Excess PbI <sub>2</sub> Beneficial for Perovskite Solar Cell Performance?. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502206	21.8	226
100	Effect of Native Defects on Photocatalytic Properties of ZnO. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 11095-11101	3.8	209
99	Alkali Chlorides for the Suppression of the Interfacial Recombination in Inverted Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803872	21.8	148
98	Native Defects in ZnO: Effect on Dye Adsorption and Photocatalytic Degradation. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 12218-12228	3.8	113
97	Encapsulation of Perovskite Solar Cells for High Humidity Conditions. <i>ChemSusChem</i> , <b>2016</b> , 9, 2597-2603	3.3	113
96	NiO/ZnO light emitting diodes by solution-based growth. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 113505	3.4	111
95	Antibacterial activity of ZnO nanoparticles with a modified surface under ambient illumination. <i>Nanotechnology</i> , <b>2012</b> , 23, 475703	3.4	101
94	Undoped p-Type ZnO Nanorods Synthesized by a Hydrothermal Method. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 1020-1030	15.6	97
93	Novel Molecular Doping Mechanism for n-Doping of SnO via Triphenylphosphine Oxide and Its Effect on Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805944	24	96
92	Toxicity of ZnO and TiO <sub>2</sub> to Escherichia coli cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 35243	4.9	91
91	Visible-light photocatalysts: Prospects and challenges. <i>APL Materials</i> , <b>2020</b> , 8, 030903	5.7	82

90	Photocatalytic activity of metal oxides—The role of holes and OH radicals. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 107, 150-157	21.8	81
89	ZnO and TiO <sub>2</sub> 1D nanostructures for photocatalytic applications. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 1328-1332	5.7	76
88	Effect of ZnO nanoparticle properties on dye-sensitized solar cell performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 1254-61	9.5	73
87	Green emission in ZnO nanostructures—Examination of the roles of oxygen and zinc vacancies. <i>Applied Surface Science</i> , <b>2013</b> , 271, 202-209	6.7	64
86	GaN/ZnO nanorod light emitting diodes with different emission spectra. <i>Nanotechnology</i> , <b>2009</b> , 20, 445204	20.4	64
85	Hydrogen peroxide treatment induced rectifying behavior of Au—ZnO contact. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 122101	3.4	62
84	Stability issues of the next generation solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2016</b> , 10, 281-299	2.5	54
83	Long cycle life of CoMn <sub>2</sub> O <sub>4</sub> lithium ion battery anodes with high crystallinity. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14759-14767	13	52
82	Organometallic Polymer Light-Emitting Diodes Derived from a Platinum(II) Polyene Containing the Bithiazole Ring. <i>Macromolecular Chemistry and Physics</i> , <b>2008</b> , 209, 1319-1332	2.6	46
81	Ion-Desorption Efficiency and Internal-Energy Transfer in Surface-Assisted Laser Desorption/Ionization: More Implication(s) for the Thermal-Driven and Phase-Transition-Driven Desorption Process. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 23708-23720	3.8	44
80	Au/n-ZnO rectifying contact fabricated with hydrogen peroxide pretreatment. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 093706	2.5	43
79	Synthesis of conjugated polymers with pendant ruthenium terpyridine trithiocyanato complexes and their applications in heterojunction photovoltaic cells. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 1305-1317	2.5	41
78	Synthesis and properties of copper phthalocyanine nanowires. <i>Thin Solid Films</i> , <b>2007</b> , 515, 5270-5274	2.2	38
77	Toxicity of CeO <sub>2</sub> nanoparticles - the effect of nanoparticle properties. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2015</b> , 145, 48-59	6.7	37
76	Splitting Water on Metal Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 19710-19715	3.8	37
75	Antibacterial and photocatalytic activity of TiO <sub>2</sub> and ZnO nanomaterials in phosphate buffer and saline solution. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 5565-73	5.7	35
74	Solution-based growth of ZnO nanorods for light-emitting devices: hydrothermal vs. electrodeposition. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 100, 851-858	1.9	33
73	Multifunctional Poly(N-vinylcarbazole)-Based Block Copolymers and their Nanofabrication and Photosensitizing Properties. <i>Macromolecular Rapid Communications</i> , <b>2009</b> , 30, 622-6	4.8	32

72	ZnO nanorod/GaN light-emitting diodes: The origin of yellow and violet emission bands under reverse and forward bias. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 094513	2.5	30
71	The Influence of the ZnO Seed Layer on the ZnO Nanorod/GaN LEDs. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, H308	3.9	29
70	Indium tin oxide nanowires growth by dc sputtering. <i>Applied Physics A: Materials Science and Processing</i> , <b>2011</b> , 104, 1075-1080	2.6	28
69	Enhanced conversion efficiency of polymeric photovoltaic cell by nanostructured antireflection coating. <i>Organic Electronics</i> , <b>2011</b> , 12, 557-561	3.5	27
68	Mixed Spacer Cation Stabilization of Blue-Emitting n = 2 Ruddlesden-Popper Organic-Inorganic Halide Perovskite Films. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901679	8.1	27
67	Metal oxide nanoparticles with low toxicity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2015</b> , 151, 17-24	6.7	25
66	Hydrothermally synthesized CuxO as a catalyst for CO oxidation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3627-3632	13	24
65	TiO <sub>2</sub> /Carbon nanotube composites for visible photocatalysts – Influence of TiO <sub>2</sub> crystal structure. <i>Current Applied Physics</i> , <b>2013</b> , 13, 1280-1287	2.6	22
64	Indium tin oxide nanorod electrodes for polymer photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 522-7	9.5	22
63	Near infrared emission in rubrene:fullerene heterojunction devices. <i>Chemical Physics Letters</i> , <b>2009</b> , 474, 141-145	2.5	22
62	Spectroscopic ellipsometry characterization of polymer/fullerene blend films. <i>Thin Solid Films</i> , <b>2008</b> , 517, 1047-1052	2.2	21
61	Organic Nanoclusters on Inorganic Nanostructures for Tailoring the Emission Properties of Organic Materials. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 566-574	15.6	21
60	Effect of Plasma Treatment on Native Defects and Photocatalytic Activities of Zinc Oxide Tetrapods. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 22760-22767	3.8	20
59	In situ synthesis of CuxO/SnOx@CNT and CuxO/SnOx@SnO <sub>2</sub> /CNT nanocomposite anodes for lithium ion batteries by a simple chemical treatment process. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 13478-86	9.5	20
58	Antibacterial activity of ZnO nanoparticles under ambient illumination – The effect of nanoparticle properties. <i>Thin Solid Films</i> , <b>2013</b> , 542, 368-372	2.2	19
57	Ruthenium complex containing block copolymer for the enhancement of carbon nanotube photoconductivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 74-80	9.5	16
56	Effect of starting properties and annealing on photocatalytic activity of ZnO nanoparticles. <i>Applied Surface Science</i> , <b>2013</b> , 283, 914-923	6.7	15
55	Perovskite Solar Cells: Alkali Chlorides for the Suppression of the Interfacial Recombination in Inverted Planar Perovskite Solar Cells (Adv. Energy Mater. 19/2019). <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1970068	21.8	14

54	Encapsulation of Perovskite Solar Cells for High Humidity Conditions. <i>ChemSusChem</i> , <b>2016</b> , 9, 2518-25188.3		14
53	2-Step self-assembly method to fabricate broadband omnidirectional antireflection coating in large scale. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 699-703	6.4	14
52	Generation of highly reactive oxygen species on metal-supported MgO(100) thin films. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 25373-25379	3.6	13
51	Antibacterial and photocatalytic activities of TiO <sub>2</sub> nanotubes. <i>Journal of Experimental Nanoscience</i> , <b>2013</b> , 8, 859-867	1.9	13
50	Effect of doping precursors on the optical properties of Ce-doped ZnO nanorods. <i>Thin Solid Films</i> , <b>2011</b> , 520, 1125-1130	2.2	13
49	Biocompatible and Biodegradable Magnesium Oxide Nanoparticles with In Vitro Photostable Near-Infrared Emission: Short-Term Fluorescent Markers. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	12
48	Hydrothermal treatment of ZnO nanostructures. <i>Thin Solid Films</i> , <b>2012</b> , 520, 2656-2662	2.2	12
47	Graphene-oxide-wrapped ZnMnO as a high performance lithium-ion battery anode. <i>Nanotechnology</i> , <b>2017</b> , 28, 455401	3.4	11
46	An alumina stabilized graphene oxide wrapped SnO <sub>2</sub> hollow sphere LIB anode with improved lithium storage. <i>RSC Advances</i> , <b>2015</b> , 5, 100783-100789	3.7	11
45	Effect of annealing on the performance of CrO <sub>3</sub> /ZnO light emitting diodes. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 203502	3.4	11
44	Metal-Free and Metallated Polymers: Properties and Photovoltaic Performance. <i>Macromolecular Chemistry and Physics</i> , <b>2012</b> , 213, 1300-1310	2.6	10
43	Multicomponent antimicrobial transparent polymer coatings. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 122, 1572-1578	2.9	10
42	Structure-Dependent Photoluminescence in Low-Dimensional Ethylammonium, Propylammonium, and Butylammonium Lead Iodide Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 5008-5016	9.5	10
41	Annealing-Induced Antibacterial Activity in TiO <sub>2</sub> under Ambient Light. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24060-24068	3.8	9
40	Indium tin oxide nanorods by dc sputtering. <i>Current Applied Physics</i> , <b>2011</b> , 11, 594-597	2.6	9
39	Indium oxide, tin oxide and indium tin oxide nanostructure growth by vapor deposition. <i>Current Applied Physics</i> , <b>2012</b> , 12, 697-706	2.6	8
38	3,4,9,10-Perylenetetracarboxylicdiimide as an interlayer for ultraviolet organic light emitting diodes. <i>Optics Communications</i> , <b>2008</b> , 281, 2498-2503	2	8
37	Study of Laser-Debonded GaN LEDs. <i>IEEE Transactions on Electron Devices</i> , <b>2006</b> , 53, 2266-2272	2.9	8

36	Indium oxide cubes prepared by hydrothermal synthesis as catalysts for CO oxidation. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 153, 243-247	4.4	7
35	Metal oxide charge transport layers in perovskite solar cells—optimising low temperature processing and improving the interfaces towards low temperature processed, efficient and stable devices. <i>JPhys Energy</i> , <b>2021</b> , 3, 012004	4.9	7
34	Temperature and salinity jointly drive the toxicity of zinc oxide nanoparticles: a challenge to environmental risk assessment under global climate change. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 2995-3006	7.1	7
33	Effect of Tm doping on the properties of electrodeposited ZnO nanorods. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 125, 813-817	4.4	6
32	Encapsulation and Stability Testing of Perovskite Solar Cells for Real Life Applications. <i>ACS Materials Au</i> ,		6
31	GaN/MgO/ZnO heterojunction light-emitting diodes. <i>Thin Solid Films</i> , <b>2013</b> , 527, 303-307	2.2	5
30	In situ synthesis of TiO <sub>2</sub> (B) nanotube/nanoparticle composite anode materials for lithium ion batteries. <i>Nanotechnology</i> , <b>2015</b> , 26, 425403	3.4	5
29	Nitrogen doped-ZnO/n-GaN heterojunctions. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 084330	2.5	5
28	A three-dimensional network of graphene/silicon/graphene sandwich sheets as anode for Li-ion battery. <i>Thin Solid Films</i> , <b>2020</b> , 693, 137702	2.2	5
27	Hydrophobic Surface Coating Can Reduce Toxicity of Zinc Oxide Nanoparticles to the Marine Copepod. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 6917-6925	10.3	5
26	Iron oxide/graphene composites as negative-electrode materials for lithium ion batteries □ optimum particle size for stable performance. <i>RSC Advances</i> , <b>2015</b> , 5, 91466-91471	3.7	4
25	Correlation of quantum efficiency and photoluminescence lifetime of ZnO tetrapods grown at different temperatures. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 023515	2.5	4
24	Infrared photoluminescence from □and □copper phthalocyanine nanostructures. <i>Optical Materials</i> , <b>2010</b> , 32, 924-927	3.3	4
23	Transmission electron microscopy artifacts in characterization of the nanomaterial-cell interactions. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 5469-5479	5.7	3
22	Spontaneous Formation of Nanocrystals in Amorphous Matrix: Alternative Pathway to Bright Emission in Quasi-2D Perovskites. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900269	8.1	3
21	The influence of TiO <sub>2</sub> nanostructure properties on the performance of TiO <sub>2</sub> -based anodes in lithium ion battery applications. <i>Turkish Journal of Physics</i> , <b>2014</b> , 38, 442-449	1.6	3
20	Preparation of 8-hydroxyquinoline wires by decomposition of tris(8-hydroxyquinoline) aluminium. <i>Journal of Experimental Nanoscience</i> , <b>2012</b> , 7, 578-585	1.9	3
19	Hydrothermal vs. electrodeposited Cu <sub>x</sub> O for photocatalytic applications under simulated solar illumination. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 135, 694-698	4.4	3

18	Recovery of clean ordered (1 1 1) surface of etched silicon. <i>Applied Surface Science</i> , <b>2013</b> , 282, 156-160	6.7	3
17	Growth of Triangular ZnO Nanorods by Electrodeposition. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, K269	3.9	3
16	Optical properties of ZnO-based core-shell nanostructures. <i>Thin Solid Films</i> , <b>2011</b> , 519, 2296-2301	2.2	3
15	Cavity design and optimization for organic microcavity OLEDs <b>2005</b> ,		3
14	Effect of zinc precursor on the morphology and optical properties of ZnO nanostructures prepared by electrodeposition <b>2011</b> ,		2
13	Optimization of microcavity OLED by varying the thickness of multi-layered mirror. <i>Optical and Quantum Electronics</i> , <b>2007</b> , 38, 1091-1099	2.4	2
12	Angular dependence of the emission from low Q-factor organic microcavity light emitting diodes. <i>Displays</i> , <b>2008</b> , 29, 358-364	3.4	2
11	Mesoporous silica nanosphere-based oxygen scavengers. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 327, 111426	5.3	2
10	Optical Properties of Oxide Nanomaterials <b>2013</b> , 387-430		1
9	Zinc oxide precursor treatment for improving dye-sensitized solar cell efficiency. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 532-537	1.3	1
8	Influence of native defects on photocatalytic activity of ZnO <b>2013</b> ,		1
7	ZnO nanorods for light-emitting diode applications <b>2011</b> ,		1
6	Organic quantum well light emitting diodes <b>2005</b> ,		1
5	Enhanced Light Emission Performance of Mixed Cation Perovskite Films The Effect of Solution Stoichiometry on Crystallization. <i>Advanced Optical Materials</i> , 2100393	8.1	1
4	Ruddlesden-Popper Perovskites: Spontaneous Formation of Nanocrystals in Amorphous Matrix: Alternative Pathway to Bright Emission in Quasi-2D Perovskites (Advanced Optical Materials 19/2019). <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1970074	8.1	
3	Optimization of transparent electrode processing conditions for bulk heterojunction solar cells. <i>Journal of Photonics for Energy</i> , <b>2012</b> , 2, 021005	1.2	
2	Electroluminescence of p-GaN/MgO/n-ZnO Heterojunction Light-emitting Diodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1439, 109-114		
1	3,4,9,10-Perylenetetracarboxylicdiimide/ZnO hybrid nanomaterials. <i>Optical Materials</i> , <b>2010</b> , 32, 1578-1583		

