

Wey Yang Teoh

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81 papers	4,821 citations	36 h-index	69 g-index
85 ext. papers	5,239 ext. citations	7.8 avg, IF	5.66 L-index

#	Paper	IF	Citations
81	Flame spray pyrolysis: An enabling technology for nanoparticles design and fabrication. <i>Nanoscale</i> , 2010 , 2, 1324-47	7.7	437
80	Progress in Heterogeneous Photocatalysis: From Classical Radical Chemistry to Engineering Nanomaterials and Solar Reactors. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 629-39	6.4	344
79	Photocatalytic H ₂ Evolution over TiO ₂ Nanoparticles. The Synergistic Effect of Anatase and Rutile. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2821-2829	3.8	307
78	Cytotoxic origin of copper(II) oxide nanoparticles: comparative studies with micron-sized particles, leachate, and metal salts. <i>ACS Nano</i> , 2011 , 5, 7214-25	16.7	253
77	Flame sprayed visible light-active Fe-TiO ₂ for photomineralisation of oxalic acid. <i>Catalysis Today</i> , 2007 , 120, 203-213	5.3	166
76	Direct (one-step) synthesis of . <i>Chemical Engineering Science</i> , 2005 , 60, 5852-5861	4.4	159
75	Functionalized-Graphene Composites: Fabrication and Applications in Sustainable Energy and Environment. <i>Chemistry of Materials</i> , 2016 , 28, 8082-8118	9.6	151
74	The stabilization and bio-functionalization of iron oxide nanoparticles using heterotelechelic polymers. <i>Journal of Materials Chemistry</i> , 2009 , 19, 111-123		143
73	Reversible antimicrobial photoswitching in nanosilver. <i>Small</i> , 2009 , 5, 341-4	11	139
72	Anti-fouling magnetic nanoparticles for siRNA delivery. <i>Journal of Materials Chemistry</i> , 2010 , 20, 255-265		118
71	Functionalization Strategies for Protease Immobilization on Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2010 , 20, 1767-1777	15.6	118
70	Flame preparation of visible-light-responsive BiVO ₄ oxygen evolution photocatalysts with subsequent activation via aqueous route. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1997-2004	9.5	117
69	Flame-Sprayed Superparamagnetic Bare and Silica-Coated Maghemite Nanoparticles: Synthesis, Characterization, and Protein Adsorption/Desorption. <i>Chemistry of Materials</i> , 2006 , 18, 6403-6413	9.6	116
68	Influence of the oxide support reducibility on the CO ₂ methanation over Ru-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 715-726	21.8	109
67	Catalytic reduction of NO by CO over Cu/CexZr1-xO ₂ prepared by flame synthesis. <i>Journal of Catalysis</i> , 2010 , 272, 210-219	7.3	109
66	Heterojunction Engineering of CdTe and CdSe Quantum Dots on TiO ₂ Nanotube Arrays: Intricate Effects of Size-Dependency and Interfacial Contact on Photoconversion Efficiencies. <i>Advanced Functional Materials</i> , 2012 , 22, 2821-2829	15.6	104
65	Flame-Synthesized Ceria-Supported Copper Dimers for Preferential Oxidation of CO. <i>Advanced Functional Materials</i> , 2009 , 19, 369-377	15.6	103

64	Cellular uptake and reactive oxygen species modulation of cerium oxide nanoparticles in human monocyte cell line U937. <i>Biomaterials</i> , 2012 , 33, 7915-24	15.6	100
63	Insight into microstructural and magnetic properties of flame-made γ -Fe ₂ O ₃ nanoparticles. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4876		93
62	Inter-relationship between Pt oxidation states on TiO ₂ and the photocatalytic mineralisation of organic matters. <i>Journal of Catalysis</i> , 2007 , 251, 271-280	7.3	90
61	Temperature-induced evolution of reaction sites and mechanisms during preferential oxidation of CO. <i>Journal of Catalysis</i> , 2011 , 277, 64-71	7.3	75
60	Experimental validation of proton transverse relaxivity models for superparamagnetic nanoparticle MRI contrast agents. <i>Nanotechnology</i> , 2010 , 21, 035103	3.4	72
59	Efficient photoelectrochemical water splitting over anodized p-type NiO porous films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18558-68	9.5	70
58	Anti-angiogenic activity of heparin functionalised cerium oxide nanoparticles. <i>Biomaterials</i> , 2013 , 34, 8808-18	15.6	69
57	Semiconductor Nanocrystals as Luminescent Down-Shifting Layers To Enhance the Efficiency of Thin-Film CdTe/CdS and Crystalline Si Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16393-16400	3.8	66
56	Graphene oxide-based electrochemical sensor: a platform for ultrasensitive detection of heavy metal ions. <i>RSC Advances</i> , 2014 , 4, 24653-24657	3.7	64
55	Induced adaptation of <i>Bacillus</i> sp. to antimicrobial nanosilver. <i>Small</i> , 2013 , 9, 3554-60	11	64
54	Insight towards the role of platinum in the photocatalytic mineralisation of organic compounds. <i>Journal of Molecular Catalysis A</i> , 2007 , 263, 93-102		61
53	Shuttling Photoelectrochemical Electron Transport in Tricomponent CdS/rGO/TiO ₂ Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20406-20414	3.8	53
52	A Perspective on the Flame Spray Synthesis of Photocatalyst Nanoparticles. <i>Materials</i> , 2013 , 6, 3194-3213	3.5	52
51	Hierarchical growth of SnO ₂ nanostructured films on FTO substrates: structural defects induced by Sn(II) self-doping and their effects on optical and photoelectrochemical properties. <i>Nanoscale</i> , 2014 , 6, 6084-91	7.7	47
50	Cellular uptake and activity of heparin functionalised cerium oxide nanoparticles in monocytes. <i>Biomaterials</i> , 2013 , 34, 4377-86	15.6	46
49	Machine Learning for Accelerated Discovery of Solar Photocatalysts. <i>ACS Catalysis</i> , 2019 , 9, 11774-11787	13.1	45
48	Engineering of Facets, Band Structure, and Gas-Sensing Properties of Hierarchical Sn ²⁺ -Doped SnO ₂ Nanostructures. <i>Advanced Functional Materials</i> , 2013 , 23, n/a-n/a	15.6	45
47	Submicron and nano formulations of titanium dioxide and zinc oxide stimulate unique cellular toxicological responses in the green microalga <i>Chlamydomonas reinhardtii</i> . <i>Journal of Hazardous Materials</i> , 2013 , 260, 984-92	12.8	43

46	Photocatalytic mineralisation of organic compounds: a comparison of flame-made TiO ₂ catalysts. <i>Topics in Catalysis</i> , 2007 , 44, 489-497	2.3	42
45	Evolution of Morphology and Magnetic Properties in Silica/Maghemite Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12040-12047	3.8	33
44	Polyhedral Oligomeric Silsesquioxane as a Ligand for CdSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1857-1862	3.8	32
43	Ru-Doped Cobalt/Zirconia Nanocomposites by Flame Synthesis: Physicochemical and Catalytic Properties. <i>Chemistry of Materials</i> , 2008 , 20, 4069-4079	9.6	32
42	Dopant-free, polymorphic design of TiO ₂ nanocrystals by flame aerosol synthesis. <i>Chemical Engineering Science</i> , 2011 , 66, 2409-2416	4.4	31
41	Preferential oxidation of carbon monoxide over Pt/FeO _x /CeO ₂ synthesized by two-nozzle flame spray pyrolysis. <i>Journal of Catalysis</i> , 2015 , 329, 248-261	7.3	30
40	Decrease of the required dopant concentration for Bi ₂ O ₃ crystal stabilization through thermal quenching during single-step flame spray pyrolysis. <i>CrystEngComm</i> , 2016 , 18, 2046-2056	3.3	30
39	Supported gold clusters as effective and reusable photocatalysts for the abatement of endocrine-disrupting chemicals under visible light. <i>Journal of Catalysis</i> , 2017 , 354, 1-12	7.3	30
38	Understanding photocatalytic metallization of preadsorbed ionic gold on titania, ceria, and zirconia. <i>Langmuir</i> , 2010 , 26, 2099-106	4	29
37	Simulation of gas diffusion in highly porous nanostructures by direct simulation Monte Carlo. <i>Chemical Engineering Science</i> , 2014 , 105, 69-76	4.4	27
36	Designing Photoelectrodes for Photocatalytic Fuel Cells and Elucidating the Effects of Organic Substrates. <i>ChemSusChem</i> , 2015 , 8, 4005-15	8.3	26
35	Investigation of the Exchange Kinetics and Surface Recovery of Cd _x Hg _{1-x} Te Quantum Dots during Cation Exchange Using a Microfluidic Flow Reactor. <i>Chemistry of Materials</i> , 2017 , 29, 2756-2768	9.6	22
34	Floc strength characterization technique. An insight into silica aggregation. <i>Langmuir</i> , 2004 , 20, 6450-7	4	22
33	Modulating charge transport in semiconductor photocatalysts by spatial deposition of reduced graphene oxide and platinum. <i>Journal of Catalysis</i> , 2015 , 332, 101-111	7.3	21
32	Methanation of carbon monoxide over promoted flame-synthesized cobalt clusters stabilized in zirconia matrix. <i>Journal of Catalysis</i> , 2015 , 326, 182-193	7.3	19
31	Probing Surface Properties and Reaction Intermediates During Heterogeneous Catalytic Oxidation of Acetaldehyde. <i>ChemCatChem</i> , 2009 , 1, 286-294	5.2	17
30	Molybdenum Selenide nanosheets Surrounding nickel Selenides Sub-microislands on nickel foam as high-performance bifunctional electrocatalysts for water Splitting. <i>Electrochimica Acta</i> , 2020 , 349, 136336	6.7	16
29	Elucidating the Oxygen Activation Mechanism on Ceria-Supported Copper-Oxo Species Using Time-Resolved X-ray Absorption Spectroscopy. <i>ACS Catalysis</i> , 2020 , 10, 4692-4701	13.1	16

28	Revisiting the mechanism of hexavalent chromium ion reduction: The parallel photodecomposition and photocatalytic reduction of chromate(VI) ester. <i>Applied Catalysis B: Environmental</i> , 2017 , 210, 444-453	21.8	15
27	Charge Transport in Dye-Sensitized Solar Cells Based on Flame-made TiO_2 Nanoparticles. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 1641-1648	3.8	15
26	Enhanced photoelectrochemical charge transfer on Mn-doped CdS/TiO ₂ nanotube arrays: The roles of organic substrates. <i>Catalysis Today</i> , 2019 , 335, 468-476	5.3	14
25	Spectroscopic Studies of Pristine and Fluorinated Nano-ZrO ₂ in Photostimulated Heterogeneous Processes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4566-4574	3.8	14
24	Catalytically active interfaces in titania nanorod-supported copper catalysts for CO oxidation. <i>Nano Research</i> , 2020 , 13, 533-542	10	13
23	Labeling of cancer cells with magnetic nanoparticles for magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1896-905	4.4	12
22	Zinc Oxide Nanoparticles Induce Cell Filamentation in Escherichia coli. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 375-380	3.1	11
21	Cascade reaction engineering on zirconia-supported mesoporous MFI zeolites with tunable Lewis-Brønsted acid sites: a case of the one-pot conversion of furfural to Valerolactone.. <i>RSC Advances</i> , 2020 , 10, 35318-35328	3.7	11
20	In situ metal doping during modified anodization synthesis of Nb ₂ O ₅ with enhanced photoelectrochemical water splitting. <i>AIChE Journal</i> , 2016 , 62, 352-358	3.6	11
19	Flame-made amorphous solid acids with tunable acidity for the aqueous conversion of glucose to levulinic acid. <i>Green Chemistry</i> , 2020 , 22, 688-698	10	10
18	Studies of Nanosized Iron-Doped TiO ₂ Photocatalysts by Spectroscopic Methods. <i>Applied Magnetic Resonance</i> , 2017 , 48, 447-459	0.8	9
17	Selective catalytic oxidation of ammonia over nano Cu/zeolites with different topologies. <i>Environmental Science: Nano</i> , 2020 , 7, 1399-1414	7.1	7
16	Enhanced hydrogen evolution rates at high pH with a colloidal cadmium sulphide-platinum hybrid system. <i>APL Materials</i> , 2014 , 2, 126102	5.7	7
15	Facile Functionalization and Phase Reduction Route of Magnetic Iron Oxide Nanoparticles for Conjugation of Matrix Metalloproteinase. <i>Advanced Engineering Materials</i> , 2010 , 12, B210-B214	3.5	7
14	Visible-light photocatalysis and charge carrier dynamics of elemental crystalline red phosphorus. <i>Journal of Chemical Physics</i> , 2020 , 153, 024707	3.9	7
13	Modulated anodization synthesis of Sn-doped iron oxide with enhanced solar water splitting performance. <i>Materials Today Chemistry</i> , 2019 , 12, 7-15	6.2	7
12	Photocatalytic Overall Water Splitting over Al ₂ Ti ₆ O ₁₄ (A: 2Na and Sr) with Tunneling Structure. <i>Chemistry Letters</i> , 2011 , 40, 108-110	1.7	6
11	Structural Evolution of Cu/ZnO Active Sites: From Reactive Environment to Ultrahigh Vacuum. <i>ChemCatChem</i> , 2014 , 6, 2322-2326	5.2	5

10	The Role of Cocatalysts on Bismuth Vanadate in the Abatement of Endocrine Disrupting Chemicals and Related Compounds under Visible Light. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600300	3.1	4
9	2D sp ² Carbon-Conjugated Covalent Organic Framework with Pyrene-Tethered TEMPO Intercalation for Photocatalytic Aerobic Oxidation of Sulfides into Sulfoxides. <i>Solar Rrl</i> , 2100608	7.1	3
8	Solar Cells: Heterojunction Engineering of CdTe and CdSe Quantum Dots on TiO ₂ Nanotube Arrays: Intricate Effects of Size-Dependency and Interfacial Contact on Photoconversion Efficiencies (Adv. Funct. Mater. 13/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 2876-2876	15.6	1
7	Antimicrobial Resistance: Induced Adaptation of Bacillus sp. to Antimicrobial Nanosilver (Small 21/2013). <i>Small</i> , 2013 , 9, 3553-3553	11	1
6	Chemical fuel cell reactor as the ultimate green reactor. <i>Current Opinion in Chemical Engineering</i> , 2021 , 34, 100740	5.4	1
5	Hetero-phase dendritic elemental phosphorus for visible light photocatalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2022 , 121428	21.8	1
4	Nanoparticles: Zinc Oxide Nanoparticles Induce Cell Filamentation in Escherichia coli (Part. Part. Syst. Charact. 4/2013). <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 374-374	3.1	
3	Flame Synthesis of Simple and Multielemental Oxide Catalysts 2021 , 183-201		
2	Evolution of Catalysts Design and Synthesis: From Bulk Metal Catalysts to Fine Wires and Gauzes, and that to Nanoparticle Deposits, Metal Clusters, and Single Atoms 2021 , 1-19		
1	Selective visible light reduction of carbon dioxide over iridium(III)-terpyridine photocatalysts. <i>Materials Today Chemistry</i> , 2021 , 22, 100563	6.2	