

K Y Simon Ng

List of Publications by Year in descending order

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85
papers

3,679
citations

109137

35
h-index

133063

59
g-index

85
all docs

85
docs citations

85
times ranked

5809
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of nutrients on growth and lipid accumulation in the green algae <i>Dunaliella tertiolecta</i> . <i>Bioresource Technology</i> , 2011, 102, 1649-1655.	4.8	408
2	Mechanical properties and stability measurement of cholesterol-containing liposome on mica by atomic force microscopy. <i>Journal of Colloid and Interface Science</i> , 2004, 278, 53-62.	5.0	207
3	Electrocatalysis of Lithium Polysulfides: Current Collectors as Electrodes in Li/S Battery Configuration. <i>Scientific Reports</i> , 2015, 5, 8763.	1.6	181
4	Advancements in Heterogeneous Catalysis for Biodiesel Synthesis. <i>Topics in Catalysis</i> , 2010, 53, 721-736.	1.3	163
5	The Effect of Natural and Synthetic Antioxidants on the Oxidative Stability of Biodiesel. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2008, 85, 373-382.	0.8	153
6	Continuous microalgae cultivation in a photobioreactor. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2468-2474.	1.7	126
7	Electro-synthesis of 3D porous hierarchical Ni-Fe phosphate film/Ni foam as a high-efficiency bifunctional electrocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13866-13873.	5.2	124
8	Probing small unilamellar EggPC vesicles on mica surface by atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 34, 41-51.	2.5	117
9	Synergistic Effects of Antioxidants on the Oxidative Stability of Soybean Oil- and Poultry Fat-Based Biodiesel. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2009, 86, 459.	0.8	114
10	Influence of silicone surface roughness and hydrophobicity on adhesion and colonization of <i>Staphylococcus epidermidis</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 454-463.	2.1	111
11	Culture of microalgae <i>Chlorella minutissima</i> for biodiesel feedstock production. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2280-2287.	1.7	104
12	Investigation of Lubricity Characteristics of Biodiesel in Petroleum and Synthetic Fuel. <i>Energy & Fuels</i> , 2009, 23, 2229-2234.	2.5	92
13	In vitro stability study of organosilane self-assemble monolayers and multilayers. <i>Journal of Colloid and Interface Science</i> , 2005, 291, 438-447.	5.0	79
14	Effect of chain lengths of PEO-PPO-PEO on small unilamellar liposome morphology and stability: an AFM investigation. <i>Journal of Colloid and Interface Science</i> , 2005, 285, 360-372.	5.0	70
15	In situ kinetic studies of microemulsion polymerizations of styrene and methyl methacrylate by Raman spectroscopy. <i>Macromolecules</i> , 1990, 23, 1048-1053.	2.2	67
16	Hydrocarbon Fuels Production from Hydrocracking of Soybean Oil Using Transition Metal Carbides and Nitrides Supported on ZSM-5. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 10066-10073.	1.8	61
17	Nanoscale investigation on adhesion of <i>E. coli</i> to surface modified silicone using atomic force microscopy. <i>Biotechnology and Bioengineering</i> , 2006, 94, 167-176.	1.7	59
18	In-Situ Monitoring of Urethane Formation by FTIR and Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2000, 104, 3952-3957.	1.1	58

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19	Investigation of the Parameters Affecting the Cetane Number of Biodiesel. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2008, 85, 1073-1081.	0.8	54
20	Formation of Insolubles in Palm Oil, Yellow Grease, and Soybean Oil-Based Biodiesel Blends After Cold Soaking at 4 °C. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2008, 85, 1173-1182.	0.8	54
21	Effect of Antioxidants on the Storage Stability of Soybean-Oil-Based Biodiesel. <i>Energy & Fuels</i> , 2010, 24, 2028-2033.	2.5	51
22	A silicon nanoparticle/reduced graphene oxide composite anode with excellent nanoparticle dispersion to improve lithium ion battery performance. <i>Journal of Materials Science</i> , 2013, 48, 4823-4833.	1.7	49
23	A new generation of zirconia supported metal oxide catalysts for converting low grade renewable feedstocks to biodiesel. <i>Bioresource Technology</i> , 2012, 118, 37-42.	4.8	48
24	Enhanced Lithium-Oxygen Battery Performances with Pt Subnanocluster Decorated N-Doped Single-Walled Carbon Nanotube Cathodes. <i>ACS Catalysis</i> , 2016, 6, 7088-7097.	5.5	48
25	Performance of heterogeneous ZrO ₂ supported metaloxide catalysts for brown grease esterification and sulfur removal. <i>Bioresource Technology</i> , 2011, 102, 2380-2386.	4.8	47
26	Effect of Ag content on the microstructure development of Sn-Ag-Cu interconnects. <i>Journal of Materials Science: Materials in Electronics</i> , 2006, 17, 171-178.	1.1	46
27	High capacity silicon nitride-based composite anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14577-14584.	5.2	46
28	Total Acid Number Determination of Biodiesel and Biodiesel Blends. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2008, 85, 1083-1086.	0.8	42
29	Active sites of H-ZSM5 catalysts for the oxidation of nitric oxide by oxygen. <i>Catalysis Letters</i> , 1995, 34, 151-161.	1.4	40
30	The effect of support material on the transesterification activity of CaO-La ₂ O ₃ and CaO-CeO ₂ supported catalysts. <i>Green Chemistry</i> , 2011, 13, 334-339.	4.6	39
31	Hollow Cocoon-Like Hematite Mesoparticles of Nanoparticle Aggregates: Structural Evolution and Superior Performances in Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2996-3001.	4.0	39
32	Immobilization of polysaccharides on a fluorinated silicon surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 47, 57-63.	2.5	36
33	Investigation of spacer length effect on immobilized <i>Escherichia coli</i> pili-antibody molecular recognition by AFM. <i>Biotechnology and Bioengineering</i> , 2007, 98, 1109-1122.	1.7	36
34	Electrodeposition of ultrathin nickel-cobalt double hydroxide nanosheets on nickel foam as high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2015, 5, 88780-88786.	1.7	36
35	In vitro haemocompatibility and stability of two types of heparin-immobilized silicon surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 43, 245-255.	2.5	35
36	Micro Single Crystals of Hematite with Nearly 100% Exposed {104} Facets: Preferred Etching and Lithium Storage. <i>Crystal Growth and Design</i> , 2014, 14, 2811-2817.	1.4	35

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37	Effect of surface modification of silicone on Staphylococcus epidermidis adhesion and colonization. Journal of Biomedical Materials Research - Part A, 2007, 80A, 885-894.	2.1	33
38	Effect of surface proteins on Staphylococcus Epidermidis adhesion and colonization on silicone. Colloids and Surfaces B: Biointerfaces, 2006, 51, 16-24.	2.5	28
39	Pd/AlN/SiC thin-film devices for selective hydrogen sensing. Applied Physics Letters, 2001, 79, 3350-3352.	1.5	27
40	Electrical characterization of metal/AlN/Si thin film hydrogen sensors with Pd and Al gates. Journal of Applied Physics, 2003, 93, 5757-5762.	1.1	27
41	Facile synthesis of 3-D composites of MnO ₂ nanorods and holey graphene oxide for supercapacitors. Journal of Materials Science, 2015, 50, 6313-6320.	1.7	25
42	Effect of microstructure and Sn/C ratio in SnO ₂ /graphene nanocomposites for lithium-ion battery performance. RSC Advances, 2014, 4, 20540-20547.	1.7	24
43	Analysis of Sterol Glycosides in Biodiesel and Biodiesel Precipitates. JAOCS, Journal of the American Oil Chemists' Society, 2010, 87, 215-221.	0.8	23
44	Properties of Butanol-Biodiesel-ULSD Ternary Mixtures. SAE International Journal of Fuels and Lubricants, 0, 3, 660-670.	0.2	23
45	Enhanced capacity for lithium-air batteries using LaFe _{0.5} Mn _{0.5} O ₃ /CeO ₂ composite catalyst. Journal of Materials Science, 2014, 49, 4058-4066.	1.7	21
46	Structured Titanium Nitride Nanotube Arrays/Sulfur Composite as Cathode Materials for Advanced Lithium Sulfur Battery. Journal of the Electrochemical Society, 2018, 165, A1011-A1018.	1.3	20
47	Comparing Process Efficiency in Reducing Steryl Glucosides in Biodiesel. JAOCS, Journal of the American Oil Chemists' Society, 2010, 87, 337-345.	0.8	18
48	Porous olive-like carbon decorated Fe ₃ O ₄ based additive-free electrodes for highly reversible lithium storage. Journal of Materials Chemistry A, 2014, 2, 16008-16014.	5.2	18
49	Decomposition of nitric oxide and its reduction by CO over superconducting and related cuprate catalysts. Catalysis Letters, 1991, 11, 327-334.	1.4	16
50	Catalytic Conversion of Brown Grease to Green Diesel via Decarboxylation over Activated Carbon Supported Palladium Catalyst. Industrial & Engineering Chemistry Research, 2013, 52, 11527-11536.	1.8	16
51	Gram-scale synthesis of high-temperature (900 °C) stable anatase TiO ₂ nanostructures assembled by tunable building subunits for safer lithium ion batteries. RSC Advances, 2013, 4, 2557-2562.	1.7	16
52	Oxidation of carbon monoxide over barium cuprate catalysts. Catalysis Letters, 1990, 6, 349-360.	1.4	15
53	Stability of and inflammatory response to silicon coated with a fluoroalkyl self-assembled monolayer in the central nervous system. Journal of Biomedical Materials Research - Part A, 2007, 81A, 363-372.	2.1	15
54	Short-and long-term neural biocompatibility of heparin coated sapphire implants. Materials Science and Engineering C, 2007, 27, 237-243.	3.8	15

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55	Effect of Metal Ratio and Preparation Method on Nickel–Tungsten Carbide Catalyst for Hydrocracking of Distillers Dried Grains with Solubles Corn Oil. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 6923-6933.	1.8	15
56	Tunneling holes in microparticles to facilitate the transport of lithium ions for high volumetric density batteries. <i>Nanoscale</i> , 2015, 7, 14368-14377.	2.8	15
57	Response to hydrogen of a metal/AlN/Si thin film structure: Effects of composition and structure of a combination Pd–Cr gate. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 843-851.	4.0	14
58	Effect of cast molded rifampicin/silicone on staphylococcus epidermidis biofilm formation. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 580-588.	2.1	14
59	Functionalization of AlN surface and effect of spacer density on Escherichia coli pili-antibody molecular recognition. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 63, 176-182.	2.5	14
60	Effects of silver on the phase formation of the Bi-Pb-Sr-Ca-Cu-O superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 1992, 5, 301-311.	0.5	13
61	Effects of annealing and gas treatment on the morphology of platinum cluster size on highly oriented pyrolytic graphite by scanning tunneling microscopy. <i>Catalysis Letters</i> , 1994, 23, 281-292.	1.4	13
62	Synthesis of activated carbons derived from avocado shells as cathode materials for lithium–sulfur batteries. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	13
63	Facile one-step synthesis of MnO ₂ nanowires on graphene under mild conditions for application in supercapacitors. <i>Journal of Materials Science</i> , 2013, 48, 6410-6417.	1.7	12
64	Cathode Framework of Nanostructured Titanium Nitride/Graphene for Advanced Lithium–Sulfur Batteries. <i>ChemElectroChem</i> , 2019, 6, 2796-2804.	1.7	12
65	Direct observation of competitive adsorption of NO, O, and N on Rh(111) surface by scanning tunneling microscopy. <i>Applied Physics Letters</i> , 1996, 68, 496-498.	1.5	10
66	A Family of Mesocubes. <i>Chemistry of Materials</i> , 2014, 26, 4472-4485.	3.2	10
67	Response transients in a Pd–Ni/AlN/n-Si hydrogen sensor. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 277-282.	4.0	9
68	Deterioration of B20 from Compression Ignition Engine Operation. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 3, 638-649.	0.2	9
69	Catalytic Conversion of Triglycerides to Liquid Biofuels Through Transesterification, Cracking, and Hydrotreatment Processes. <i>Current Catalysis</i> , 2012, 1, 41-51.	0.5	9
70	Patterned Immobilization of Antibodies in Mechanically Induced Cracks. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2727-2733.	1.2	8
71	Monitoring phase formation of Pb-substituted Bi-Sr-Ca-Cu-O superconducting samples at different preparative stages using Raman spectroscopy and X-ray diffraction. <i>Journal of Superconductivity and Novel Magnetism</i> , 1991, 4, 179-188.	0.5	6
72	Effects of Cs ₂ CO ₃ Additive in KOH Electrolyte Used in Ni/MH Batteries. <i>Batteries</i> , 2017, 3, 41.	2.1	6

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73	Facile Synthesis of CoS Nanoparticles Anchored on the Surface of Functionalized Multiwalled Carbon Nanotubes as Cathode Materials for Advanced Li-ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 9322-9330.	1.8	6
74	Oxygen content determination of Bi ₂ Sr ₂ Ca ₂ Cu ₄ O _{11+x} superconductor by thermogravimetric analysis. <i>Journal of Superconductivity and Novel Magnetism</i> , 1991, 4, 375-384.	0.5	5
75	Nanoscale Investigation on E. coli Adhesion to Modified Silicone Surfaces. <i>Methods in Molecular Biology</i> , 2011, 736, 379-388.	0.4	4
76	Electron Backscatter Diffraction Studies on the Formation of Superlattice Metal Hydride Alloys. <i>Batteries</i> , 2017, 3, 40.	2.1	3
77	The effect of self-assembled layers on the release behavior of rifampicin-loaded silicone. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 687-700.	1.9	2
78	Observation of weakly adsorbed oxygen on Y ₅ Ba ₆ Cu ₁₁ O _y . <i>Journal of Superconductivity and Novel Magnetism</i> , 1992, 5, 5-10.	0.5	1
79	In-situ characterization of RF field induced reactions by Raman spectroscopy - I. Urethane formation kinetics and mechanisms. <i>Journal of Adhesion Science and Technology</i> , 2000, 14, 1575-1587.	1.4	1
80	In situ characterization of RF field-induced reactions by Raman spectroscopy - II. Effects of additives on urethane formation kinetics and mechanisms. <i>Journal of Adhesion Science and Technology</i> , 2000, 14, 1609-1626.	1.4	0
81	Performance of a MIS Type Pd-Cr/AlN/Si Hydrogen Sensor. <i>Materials Research Society Symposia Proceedings</i> , 2004, 828, 259.	0.1	0
82	Stabilized Pd-alloy/AlN/Si Hydrogen Sensors. <i>Materials Research Society Symposia Proceedings</i> , 2005, 872, 1.	0.1	0
83	Residual Stresses in TiO ₂ Anatase Thin Films Deposited on Glass, Sapphire and Si Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2005, 875, 1.	0.1	0
84	The Sensing Mechanism and the Response Simulation of the MIS Hydrogen Sensor. <i>IEEE Sensors Journal</i> , 2009, 9, 1196-1201.	2.4	0
85	The sensing mechanism and the response simulation of the MIS hydrogen sensor. , 2008, , 268-272.		0