

# 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  | Facile Synthesis of CoS Nanoparticles Anchored on the Surface of Functionalized Multiwalled Carbon Nanotubes as Cathode Materials for Advanced Li <sup>+</sup> S Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 9322-9330. | 1.8 | 6         |
| 2  | Cathode Framework of Nanostructured Titanium Nitride/Graphene for Advanced Lithium <sup>+</sup> Sulfur Batteries. <i>ChemElectroChem</i> , 2019, 6, 2796-2804.  | 1.7 | 12        |
| 3  | Synthesis of activated carbons derived from avocado shells as cathode materials for lithium <sup>+</sup> sulfur batteries. <i>SN Applied Sciences</i> , 2019, 1, 1.   | 1.5 | 13        |
| 4  | Structured Titanium Nitride Nanotube Arrays/Sulfur Composite as Cathode Materials for Advanced Lithium Sulfur Battery. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1011-A1018.  | 1.3 | 20        |
| 5  | Electron Backscatter Diffraction Studies on the Formation of Superlattice Metal Hydride Alloys. <i>Batteries</i> , 2017, 3, 40.   | 2.1 | 3         |
| 6  | Effects of Cs <sub>2</sub> CO <sub>3</sub> Additive in KOH Electrolyte Used in Ni/MH Batteries. <i>Batteries</i> , 2017, 3, 41.   | 2.1 | 6         |
| 7  | Electro-synthesis of 3D porous hierarchical Ni <sup>+</sup> 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  | Enhanced Lithium <sup>+</sup> 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        |
| 9  | Electrocatalysis of Lithium Polysulfides: Current Collectors as Electrodes in Li/S Battery Configuration. <i>Scientific Reports</i> , 2015, 5, 8763.  | 1.6 | 181       |
| 10 | 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        |
| 11 | Facile synthesis of 3-D composites of MnO <sub>2</sub> nanorods and holey graphene oxide for supercapacitors. <i>Journal of Materials Science</i> , 2015, 50, 6313-6320.  | 1.7 | 25        |
| 12 | Electrodeposition of ultrathin nickel <sup>+</sup> cobalt double hydroxide nanosheets on nickel foam as high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2015, 5, 88780-88786.   | 1.7 | 36        |
| 13 | Effect of Metal Ratio and Preparation Method on Nickel <sup>+</sup> Tungsten Carbide Catalyst for Hydrocracking of Distillers Dried Grains with Solubles Corn Oil. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 6923-6933.          | 1.8 | 15        |
| 14 | Porous olive-like carbon decorated Fe <sub>3</sub> O <sub>4</sub> based additive-free electrodes for highly reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16008-16014.   | 5.2 | 18        |
| 15 | 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        |
| 16 | Effect of microstructure and Sn/C ratio in SnO <sub>2</sub> <sup>+</sup> graphene nanocomposites for lithium-ion battery performance. <i>RSC Advances</i> , 2014, 4, 20540-20547.   | 1.7 | 24        |
| 17 | Hollow Cocoon-Like Hematite Mesoparticles of Nanoparticle Aggregates: Structural Evolution and Superior Performances in Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 2996-3001.  | 4.0 | 39        |
| 18 | Enhanced capacity for lithium <sup>+</sup> air batteries using LaFe <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3</sub> <sup>+</sup> CeO <sub>2</sub> composite catalyst. <i>Journal of Materials Science</i> , 2014, 49, 4058-4066.                          | 1.7 | 21        |

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|----|--|-----|-----------|
| 19 | A Family of Mesocubes. <i>Chemistry of Materials</i> , 2014, 26, 4472-4485.  | 3.2 | 10        |
| 20 | 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        |
| 21 | Facile one-step synthesis of MnO <sub>2</sub> nanowires on graphene under mild conditions for application in supercapacitors. <i>Journal of Materials Science</i> , 2013, 48, 6410-6417.                           | 1.7 | 12        |
| 22 | Catalytic Conversion of Brown Grease to Green Diesel via Decarboxylation over Activated Carbon Supported Palladium Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 11527-11536.       | 1.8 | 16        |
| 23 | 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        |
| 24 | Gram-scale synthesis of high-temperature (900 °C) stable anatase TiO <sub>2</sub> nanostructures assembled by tunable building subunits for safer lithium ion batteries. <i>RSC Advances</i> , 2013, 4, 2557-2562. | 1.7 | 16        |
| 25 | 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        |
| 26 | Catalytic Conversion of Triglycerides to Liquid Biofuels Through Transesterification, Cracking, and Hydrotreatment Processes. <i>Current Catalysis</i> , 2012, 1, 41-51.   | 0.5 | 9         |
| 27 | Hydrocarbon Fuels Production from Hydrocracking of Soybean Oil Using Transition Metal Carbides and Nitrides Supported on ZSM-5. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 10066-10073.    | 1.8 | 61        |
| 28 | Continuous microalgae cultivation in a photobioreactor. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2468-2474.  | 1.7 | 126       |
| 29 | The effect of support material on the transesterification activity of CaO/La <sub>2</sub> O <sub>3</sub> and CaO/CeO <sub>2</sub> supported catalysts. <i>Green Chemistry</i> , 2011, 13, 334-339.                 | 4.6 | 39        |
| 30 | Performance of heterogeneous ZrO <sub>2</sub> supported metaloxide catalysts for brown grease esterification and sulfur removal. <i>Bioresource Technology</i> , 2011, 102, 2380-2386.                             | 4.8 | 47        |
| 31 | Culture of microalgae <i>Chlorella minutissima</i> for biodiesel feedstock production. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2280-2287.   | 1.7 | 104       |
| 32 | 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       |
| 33 | Nanoscale Investigation on E. coli Adhesion to Modified Silicone Surfaces. <i>Methods in Molecular Biology</i> , 2011, 736, 379-388.   | 0.4 | 4         |
| 34 | Analysis of Sterol Glycosides in Biodiesel and Biodiesel Precipitates. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2010, 87, 215-221.  | 0.8 | 23        |
| 35 | Comparing Process Efficiency in Reducing Steryl Glucosides in Biodiesel. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2010, 87, 337-345.  | 0.8 | 18        |
| 36 | Advancements in Heterogeneous Catalysis for Biodiesel Synthesis. <i>Topics in Catalysis</i> , 2010, 53, 721-736.   | 1.3 | 163       |

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|----|--|-----|-----------|
| 37 | Effect of Antioxidants on the Storage Stability of Soybean-Oil-Based Biodiesel. Energy & Fuels, 2010, 24, 2028-2033.   | 2.5 | 51        |
| 38 | The Sensing Mechanism and the Response Simulation of the MIS Hydrogen Sensor. IEEE Sensors Journal, 2009, 9, 1196-1201.  | 2.4 | 0         |
| 39 | Influence of silicone surface roughness and hydrophobicity on adhesion and colonization of <i>Staphylococcus epidermidis</i> . Journal of Biomedical Materials Research - Part A, 2009, 88A, 454-463.      | 2.1 | 111       |
| 40 | Synergistic Effects of Antioxidants on the Oxidative Stability of Soybean Oil and Poultry Fat-Based Biodiesel. JAOCS, Journal of the American Oil Chemists' Society, 2009, 86, 459.                        | 0.8 | 114       |
| 41 | Investigation of Lubricity Characteristics of Biodiesel in Petroleum and Synthetic Fuel. Energy & Fuels, 2009, 23, 2229-2234.  | 2.5 | 92        |
| 42 | Functionalization of AlN surface and effect of spacer density on Escherichia coli pili-antibody molecular recognition. Colloids and Surfaces B: Biointerfaces, 2008, 63, 176-182.                          | 2.5 | 14        |
| 43 | The Effect of Natural and Synthetic Antioxidants on the Oxidative Stability of Biodiesel. JAOCS, Journal of the American Oil Chemists' Society, 2008, 85, 373-382.   | 0.8 | 153       |
| 44 | Total Acid Number Determination of Biodiesel and Biodiesel Blends. JAOCS, Journal of the American Oil Chemists' Society, 2008, 85, 1083-1086.  | 0.8 | 42        |
| 45 | Investigation of the Parameters Affecting the Cetane Number of Biodiesel. JAOCS, Journal of the American Oil Chemists' Society, 2008, 85, 1073-1081.   | 0.8 | 54        |
| 46 | Formation of Insolubles in Palm Oil, Yellow Grease, and Soybean Oil-Based Biodiesel Blends After Cold Soaking at 4 °C. JAOCS, Journal of the American Oil Chemists' Society, 2008, 85, 1173-1182.          | 0.8 | 54        |
| 47 | Patterned Immobilization of Antibodies in Mechanically Induced Cracks. Journal of Physical Chemistry B, 2008, 112, 2727-2733.  | 1.2 | 8         |
| 48 | The sensing mechanism and the response simulation of the MIS hydrogen sensor. , 2008, , 268-272.   |     | 0         |
| 49 | The effect of self-assembled layers on the release behavior of rifampicin-loaded silicone. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 687-700.  | 1.9 | 2         |
| 50 | Investigation of spacer length effect on immobilized Escherichia coli pili-antibody molecular recognition by AFM. Biotechnology and Bioengineering, 2007, 98, 1109-1122.                                   | 1.7 | 36        |
| 51 | 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        |
| 52 | 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        |
| 53 | Short-and long-term neural biocompatibility of heparin coated sapphire implants. Materials Science and Engineering C, 2007, 27, 237-243.   | 3.8 | 15        |
| 54 | Response transients in a Pd-Ni/AlN/n-Si hydrogen sensor. Sensors and Actuators B: Chemical, 2007, 123, 277-282.  | 4.0 | 9         |

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|----|---|-----|-----------|
| 55 | Immobilization of polysaccharides on a fluorinated silicon surface. Colloids and Surfaces B: Biointerfaces, 2006, 47, 57-63.  | 2.5 | 36        |
| 56 | Effect of surface proteins on Staphylococcus Epidermidis adhesion and colonization on silicone. Colloids and Surfaces B: Biointerfaces, 2006, 51, 16-24.  | 2.5 | 28        |
| 57 | Effect of Ag content on the microstructure development of Sn-Ag-Cu interconnects. Journal of Materials Science: Materials in Electronics, 2006, 17, 171-178.  | 1.1 | 46        |
| 58 | Response to hydrogen of a metal/AlN/Si thin film structure: Effects of composition and structure of a combination Pd <sup>δ</sup> Cr gate. Sensors and Actuators B: Chemical, 2006, 113, 843-851.                       | 4.0 | 14        |
| 59 | Nanoscale investigation on adhesion of E. coli to surface modified silicone using atomic force microscopy. Biotechnology and Bioengineering, 2006, 94, 167-176.   | 1.7 | 59        |
| 60 | Effect of cast molded rifampicin/silicone on staphylococcus epidermidis biofilm formation. Journal of Biomedical Materials Research - Part A, 2006, 76A, 580-588.   | 2.1 | 14        |
| 61 | Effect of chain lengths of PEO <sup>δ</sup> PPO <sup>δ</sup> PEO on small unilamellar liposome morphology and stability: an AFM investigation. Journal of Colloid and Interface Science, 2005, 285, 360-372.            | 5.0 | 70        |
| 62 | In vitro haemocompatibility and stability of two types of heparin-immobilized silicon surfaces. Colloids and Surfaces B: Biointerfaces, 2005, 43, 245-255.  | 2.5 | 35        |
| 63 | In vitro stability study of organosilane self-assemble monolayers and multilayers. Journal of Colloid and Interface Science, 2005, 291, 438-447.  | 5.0 | 79        |
| 64 | Stabilized Pd-alloy/AlN/Si Hydrogen Sensors. Materials Research Society Symposia Proceedings, 2005, 872, 1.   | 0.1 | 0         |
| 65 | Residual Stresses in TiO <sub>2</sub> Anatase Thin Films Deposited on Glass, Sapphire and Si Substrates. Materials Research Society Symposia Proceedings, 2005, 875, 1.   | 0.1 | 0         |
| 66 | Performance of a MIS Type Pd-Cr/AlN/Si Hydrogen Sensor. Materials Research Society Symposia Proceedings, 2004, 828, 259.  | 0.1 | 0         |
| 67 | Mechanical properties and stability measurement of cholesterol-containing liposome on mica by atomic force microscopy. Journal of Colloid and Interface Science, 2004, 278, 53-62.                                      | 5.0 | 207       |
| 68 | Probing small unilamellar EggPC vesicles on mica surface by atomic force microscopy. Colloids and Surfaces B: Biointerfaces, 2004, 34, 41-51.   | 2.5 | 117       |
| 69 | 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        |
| 70 | Pd/AlN/SiC thin-film devices for selective hydrogen sensing. Applied Physics Letters, 2001, 79, 3350-3352.  | 1.5 | 27        |
| 71 | In-situ characterization of RF field induced reactions by Raman spectroscopy <sup>δ</sup> I. Urethane formation kinetics and mechanisms. Journal of Adhesion Science and Technology, 2000, 14, 1575-1587.               | 1.4 | 1         |
| 72 | In situ characterization of RF field-induced reactions by Raman spectroscopy - II. Effects of additives on urethane formation kinetics and mechanisms. Journal of Adhesion Science and Technology, 2000, 14, 1609-1626. | 1.4 | 0         |

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|----|--|-----|-----------|
| 73 | In-Situ Monitoring of Urethane Formation by FTIR and Raman Spectroscopy. Journal of Physical Chemistry A, 2000, 104, 3952-3957.  | 1.1 | 58        |
| 74 | Direct observation of competitive adsorption of NO, O, and N on Rh(111) surface by scanning tunneling microscopy. Applied Physics Letters, 1996, 68, 496-498.  | 1.5 | 10        |
| 75 | Active sites of H-ZSM5 catalysts for the oxidation of nitric oxide by oxygen. Catalysis Letters, 1995, 34, 151-161.  | 1.4 | 40        |
| 76 | Effects of annealing and gas treatment on the morphology of platinum cluster size on highly oriented pyrolytic graphite by scanning tunneling microscopy. Catalysis Letters, 1994, 23, 281-292.  | 1.4 | 13        |
| 77 | Effects of silver on the phase formation of the Bi-Pb-Sr-Ca-Cu-O superconductors. Journal of Superconductivity and Novel Magnetism, 1992, 5, 301-311.  | 0.5 | 13        |
| 78 | Observation of weakly adsorbed oxygen on Y5Ba6Cu11Oy. Journal of Superconductivity and Novel Magnetism, 1992, 5, 5-10.   | 0.5 | 1         |
| 79 | Decomposition of nitric oxide and its reduction by CO over superconducting and related cuprate catalysts. Catalysis Letters, 1991, 11, 327-334.  | 1.4 | 16        |
| 80 | Monitoring phase formation of Pb-substituted Bi-Sr-Ca-Cu-O superconducting samples at different preparative stages using Raman spectroscopy and X-ray diffraction. Journal of Superconductivity and Novel Magnetism, 1991, 4, 179-188. | 0.5 | 6         |
| 81 | Oxygen content determination of Bi2Sr2Ca2Cu4O11+x superconductor by thermogravimetric analysis. Journal of Superconductivity and Novel Magnetism, 1991, 4, 375-384.  | 0.5 | 5         |
| 82 | Oxidation of carbon monoxide over barium cuprate catalysts. Catalysis Letters, 1990, 6, 349-360.   | 1.4 | 15        |
| 83 | In situ kinetic studies of microemulsion polymerizations of styrene and methyl methacrylate by Raman spectroscopy. Macromolecules, 1990, 23, 1048-1053.  | 2.2 | 67        |
| 84 | Deterioration of B20 from Compression Ignition Engine Operation. SAE International Journal of Fuels and Lubricants, 0, 3, 638-649.   | 0.2 | 9         |
| 85 | Properties of Butanol-Biodiesel-ULSD Ternary Mixtures. SAE International Journal of Fuels and Lubricants, 0, 3, 660-670.   | 0.2 | 23        |