Michelle T T Tan

List of Publications by Year in Descending Order

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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.

31 papers	732 citations	13 h-index	27 g-index
31 ext. papers	874 ext. citations	5.4 avg, IF	4.56 L-index

#	Paper	IF	Citations
31	Hardware implementation of an active learning self-organizing neural network to predict the power fluctuation events of a photovoltaic grid-tied system. *Microprocessors and Microsystems*, **2022**, 90, 104448	2.4	0
30	Biocompatible graphene-zirconia nanocomposite as a cyto-safe immunosensor for the rapid detection of carcinoembryonic antigen. *Scientific Reports*, **2021**, 11, 22536	4.9	3
29	A review of self-healing electrode and electrolyte materials and their mitigating degradation of Lithium batteries. *Nano Energy*, **2021**, 84, 105907	17.1	14
28	Highly sensitive and specific graphene/TiO impedimetric immunosensor based on plant-derived tetravalent envelope glycoprotein domain III (EDIII) probe antigen for dengue diagnosis. *Biosensors and Bioelectronics*, **2021**, 176, 112895	11.8	13
27	A graphene-based dengue immunosensor using plant-derived envelope glycoprotein domain III (EDIII) as the novel probe antigen. *Analyst, The*, **2021**, 146, 2009-2018	5	6
26	Impedimetric Genosensor Based on Controllable Pi–Pi Functionalization of Zirconia Decorated Graphene Nanoflakes for the Detection of Epidermal Growth Factor Receptor Exon-19 Mutation. *IEEE Sensors Journal*, **2020**, 20, 10424-10432	4	0
25	Mesoporous Zinc–Nickel–Cobalt nanocomposites anchored on graphene as electrodes for electrochemical capacitors. *Journal of Alloys and Compounds*, **2020**, 816, 152646	5.7	7
24	One-step green hydrothermal synthesis of biocompatible graphene/TiO nanocomposites for non-enzymatic HO detection and their cytotoxicity effects on human keratinocyte and lung fibroblast cells. *Journal of Materials Chemistry B*, **2018**, 6, 1195-1206	7.3	10
23	Recent developments in ceramic microthrusters and the potential applications with green propellants: a review. *Clean Technologies and Environmental Policy*, **2018**, 20, 1941-1950	4.3	4
22	. *IEEE Sensors Journal*, **2018**, 18, 7907-7916	4	7
21	Study of mixed ternary transition metal ferrites as potential electrodes for supercapacitor applications. *Results in Physics*, **2017**, 7, 345-353	3.7	103
20	Sensitivity enhancement of graphene/zinc oxide nanocomposite-based electrochemical impedance genosensor for single stranded RNA detection. *Biosensors and Bioelectronics*, **2017**, 94, 365-373	11.8	36
19	Low temperature fabrication and characterization of Si-O-C cured alumina toughened zirconia (ATZ). *Materials Today: Proceedings*, **2017**, 4, 3005-3013	1.4	1
18	Recent progress in graphene based ceramic composites: a review. *Journal of Materials Research*, **2017**, 32, 84-106	2.5	75
17	Synthesis of NiMoO4 nanorods on graphene and superior electrochemical performance of the resulting ternary based composites. *Ceramics International*, **2017**, 43, 13772-13780	5.1	35
16	Solvothermal synthesis of NiCo2O4 nanocomposites on liquid-phase exfoliated graphene as an electrode material for electrochemical capacitors. *Journal of Alloys and Compounds*, **2017**, 693, 1133-1142	5.7	30
15	Evaluation of aluminium doped spinel ferrite electrodes for supercapacitors. *Ceramics International*, **2016**, 42, 6457-6466	5.1	36

14	A Proof of Concept: Detection of Avian Influenza H5 Gene by a Graphene-Enhanced Electrochemical Genosensor. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 2438-46	1.3	12
13	Facile hydrothermal growth graphene/ZnO nanocomposite for development of enhanced biosensor. *Analytica Chimica Acta*, **2016**, 903, 131-41	6.6	57
12	One Step Green Preparation of Graphene/ZnO Nanocomposite for Electrochemical Sensing. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 7420-7426	1.3	9
11	Enhancing Electroconductivity of Yytria-Stabilised Zirconia Ceramic Using Graphene Platlets. *Key Engineering Materials*, **2016**, 690, 1-5	0.4	10
10	Cobalt oxide nanoparticles grown on exfoliated graphene for enhanced electrochemical performance. *Materials Chemistry and Physics*, **2016**, 183, 56-64	4.4	8
9	One-step green synthesis of graphene/ZnO nanocomposites for electrochemical capacitors. *Ceramics International*, **2015**, 41, 715-724	5.1	71
8	The Effect of Different Sintering Strategies on Properties of YSZ Reinforced Graphene Composites. *MATEC Web of Conferences*, **2015**, 26, 01001	0.3	
7	Solvothermal synthesis of graphene□MnO 2 nanocomposites and their electrochemical behavior. *Ceramics International*, **2015**, 41, 11418-11427	5.1	50
6	A novel synthesis route and mechanical properties of Si□□ cured Yytria stabilised zirconia (YSZ)□graphene composite. *Ceramics International*, **2015**, 41, 3518-3525	5.1	12
5	A bio-electrochemical sensing platform for glucose based on irreversible, non-covalent pi□i functionalization of graphene produced via a novel, green synthesis method. *Sensors and Actuators B: Chemical*, **2015**, 210, 558-565	8.5	37
4	One-step green synthesis of graphene/ZnO nanocomposites for non-enzymatic hydrogen peroxide sensing. *Materiali in Tehnologije*, **2015**, 49, 837-840	1.6	3
3	A novel one step synthesis of graphene via sonochemical-assisted solvent exfoliation approach for electrochemical sensing application. *Chemical Engineering Journal*, **2014**, 249, 270-278	14.7	60
2	Study on Mechanical Properties of Zirconia-Alumina Based Ceramics. *Applied Mechanics and Materials*, **2014**, 625, 81-84	0.3	3
1	Facile synthesis of few-layer graphene by mild solvent thermal exfoliation of highly oriented pyrolytic graphite. *Chemical Engineering Journal*, **2013**, 231, 1-11	14.7	20