

Michelle T T Tan

List of Publications by Citations

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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	Study of mixed ternary transition metal ferrites as potential electrodes for supercapacitor applications. <i>Results in Physics</i> , 2017 , 7, 345-353	3.7	103
30	Recent progress in graphene based ceramic composites: a review. <i>Journal of Materials Research</i> , 2017 , 32, 84-106	2.5	75
29	One-step green synthesis of graphene/ZnO nanocomposites for electrochemical capacitors. <i>Ceramics International</i> , 2015 , 41, 715-724	5.1	71
28	A novel one step synthesis of graphene via sonochemical-assisted solvent exfoliation approach for electrochemical sensing application. <i>Chemical Engineering Journal</i> , 2014 , 249, 270-278	14.7	60
27	Facile hydrothermal growth graphene/ZnO nanocomposite for development of enhanced biosensor. <i>Analytica Chimica Acta</i> , 2016 , 903, 131-41	6.6	57
26	Solvothermal synthesis of graphene/MnO ₂ nanocomposites and their electrochemical behavior. <i>Ceramics International</i> , 2015 , 41, 11418-11427	5.1	50
25	A bio-electrochemical sensing platform for glucose based on irreversible, non-covalent π-π functionalization of graphene produced via a novel, green synthesis method. <i>Sensors and Actuators B: Chemical</i> , 2015 , 210, 558-565	8.5	37
24	Sensitivity enhancement of graphene/zinc oxide nanocomposite-based electrochemical impedance genosensor for single stranded RNA detection. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 365-373	11.8	36
23	Evaluation of aluminium doped spinel ferrite electrodes for supercapacitors. <i>Ceramics International</i> , 2016 , 42, 6457-6466	5.1	36
22	Synthesis of NiMoO ₄ nanorods on graphene and superior electrochemical performance of the resulting ternary based composites. <i>Ceramics International</i> , 2017 , 43, 13772-13780	5.1	35
21	Solvothermal synthesis of NiCo ₂ O ₄ nanocomposites on liquid-phase exfoliated graphene as an electrode material for electrochemical capacitors. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 1133-1142	5.7	30
20	Facile synthesis of few-layer graphene by mild solvent thermal exfoliation of highly oriented pyrolytic graphite. <i>Chemical Engineering Journal</i> , 2013 , 231, 1-11	14.7	20
19	A review of self-healing electrode and electrolyte materials and their mitigating degradation of Lithium batteries. <i>Nano Energy</i> , 2021 , 84, 105907	17.1	14
18	Highly sensitive and specific graphene/TiO ₂ impedimetric immunosensor based on plant-derived tetravalent envelope glycoprotein domain III (EDIII) probe antigen for dengue diagnosis. <i>Biosensors and Bioelectronics</i> , 2021 , 176, 112895	11.8	13
17	A Proof of Concept: Detection of Avian Influenza H5 Gene by a Graphene-Enhanced Electrochemical Genosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 2438-46	1.3	12
16	A novel synthesis route and mechanical properties of SiO ₂ cured Yttria stabilised zirconia (YSZ)/graphene composite. <i>Ceramics International</i> , 2015 , 41, 3518-3525	5.1	12
15	One-step green hydrothermal synthesis of biocompatible graphene/TiO ₂ nanocomposites for non-enzymatic HO ₂ detection and their cytotoxicity effects on human keratinocyte and lung fibroblast cells. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1195-1206	7.3	10

14	Enhancing Electroconductivity of Yttria-Stabilised Zirconia Ceramic Using Graphene Platlets. <i>Key Engineering Materials</i> , 2016 , 690, 1-5	0.4	10
13	One Step Green Preparation of Graphene/ZnO Nanocomposite for Electrochemical Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 7420-7426	1.3	9
12	Cobalt oxide nanoparticles grown on exfoliated graphene for enhanced electrochemical performance. <i>Materials Chemistry and Physics</i> , 2016 , 183, 56-64	4.4	8
11	. <i>IEEE Sensors Journal</i> , 2018 , 18, 7907-7916	4	7
10	Mesoporous ZincNickelCobalt nanocomposites anchored on graphene as electrodes for electrochemical capacitors. <i>Journal of Alloys and Compounds</i> , 2020 , 816, 152646	5.7	7
9	A graphene-based dengue immunosensor using plant-derived envelope glycoprotein domain III (EDIII) as the novel probe antigen. <i>Analyst, The</i> , 2021 , 146, 2009-2018	5	6
8	Recent developments in ceramic microthrusters and the potential applications with green propellants: a review. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 1941-1950	4.3	4
7	Study on Mechanical Properties of Zirconia-Alumina Based Ceramics. <i>Applied Mechanics and Materials</i> , 2014 , 625, 81-84	0.3	3
6	One-step green synthesis of graphene/ZnO nanocomposites for non-enzymatic hydrogen peroxide sensing. <i>Materiali in Tehnologije</i> , 2015 , 49, 837-840	1.6	3
5	Biocompatible graphene-zirconia nanocomposite as a cyto-safe immunosensor for the rapid detection of carcinoembryonic antigen. <i>Scientific Reports</i> , 2021 , 11, 22536	4.9	3
4	Low temperature fabrication and characterization of Si-O-C cured alumina toughened zirconia (ATZ). <i>Materials Today: Proceedings</i> , 2017 , 4, 3005-3013	1.4	1
3	Impedimetric Genosensor Based on Controllable PiBi Functionalization of Zirconia Decorated Graphene Nanoflakes for the Detection of Epidermal Growth Factor Receptor Exon-19 Mutation. <i>IEEE Sensors Journal</i> , 2020 , 20, 10424-10432	4	0
2	Hardware implementation of an active learning self-organizing neural network to predict the power fluctuation events of a photovoltaic grid-tied system. <i>Microprocessors and Microsystems</i> , 2022 , 90, 104448	2.4	0
1	The Effect of Different Sintering Strategies on Properties of YSZ Reinforced Graphene Composites. <i>MATEC Web of Conferences</i> , 2015 , 26, 01001	0.3	