

# Michelle T T Tan

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

1,035  
citations

567247

15  
h-index

477281

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1525  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of mixed ternary transition metal ferrites as potential electrodes for supercapacitor applications. Results in Physics, 2017, 7, 345-353.	4.1	160
2	Recent progress in graphene based ceramic composites: a review. Journal of Materials Research, 2017, 32, 84-106.	2.6	102
3	One-step green synthesis of graphene/ZnO nanocomposites for electrochemical capacitors. Ceramics International, 2015, 41, 715-724.	4.8	90
4	Facile hydrothermal growth graphene/ZnO nanocomposite for development of enhanced biosensor. Analytica Chimica Acta, 2016, 903, 131-141.	5.4	76
5	A novel one step synthesis of graphene via sonochemical-assisted solvent exfoliation approach for electrochemical sensing application. Chemical Engineering Journal, 2014, 249, 270-278.	12.7	72
6	Solvothermal synthesis of graphene/MnO <sub>2</sub> nanocomposites and their electrochemical behavior. Ceramics International, 2015, 41, 11418-11427.	4.8	56
7	Evaluation of aluminium doped spinel ferrite electrodes for supercapacitors. Ceramics International, 2016, 42, 6457-6466.	4.8	54
8	Sensitivity enhancement of graphene/zinc oxide nanocomposite-based electrochemical impedance genosensor for single stranded RNA detection. Biosensors and Bioelectronics, 2017, 94, 365-373.	10.1	53
9	Synthesis of NiMoO <sub>4</sub> nanorods on graphene and superior electrochemical performance of the resulting ternary based composites. Ceramics International, 2017, 43, 13772-13780.	4.8	46
10	A bio-electrochemical sensing platform for glucose based on irreversible, non-covalent pi-pi functionalization of graphene produced via a novel, green synthesis method. Sensors and Actuators B: Chemical, 2015, 210, 558-565.	7.8	43
11	A review of self-healing electrode and electrolyte materials and their mitigating degradation of Lithium batteries. Nano Energy, 2021, 84, 105907.	16.0	43
12	Solvothermal synthesis of NiCo <sub>2</sub> O <sub>4</sub> nanocomposites on liquid-phase exfoliated graphene as an electrode material for electrochemical capacitors. Journal of Alloys and Compounds, 2017, 693, 1133-1142.	5.5	36
13	Highly sensitive and specific graphene/TiO <sub>2</sub> impedimetric immunosensor based on plant-derived tetravalent envelope glycoprotein domain III (EDIII) probe antigen for dengue diagnosis. Biosensors and Bioelectronics, 2021, 176, 112895.	10.1	28
14	A novel synthesis route and mechanical properties of SiO <sub>2</sub> /C cured Yttria stabilised zirconia (YSZ)-graphene composite. Ceramics International, 2015, 41, 3518-3525.	4.8	22
15	Facile synthesis of few-layer graphene by mild solvent thermal exfoliation of highly oriented pyrolytic graphite. Chemical Engineering Journal, 2013, 231, 1-11.	12.7	21
16	One-step green hydrothermal synthesis of biocompatible graphene/TiO <sub>2</sub> nanocomposites for non-enzymatic H <sub>2</sub> O <sub>2</sub> detection and their cytotoxicity effects on human keratinocyte and lung fibroblast cells. Journal of Materials Chemistry B, 2018, 6, 1195-1206.	5.8	14
17	A Disposable Electrochemical Sensing Platform for Acetaminophen Based on Graphene/ZrO <sub>2</sub> Nanocomposite Produced via a Facile, Green Synthesis Method. IEEE Sensors Journal, 2018, 18, 7907-7916.	4.7	14
18	A Proof of Concept: Detection of Avian Influenza H5N1 Gene by a Graphene-Enhanced Electrochemical Genosensor. Journal of Nanoscience and Nanotechnology, 2016, 16, 2438-2446.	0.9	13

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19	One Step Green Preparation of Graphene/ZnO Nanocomposite for Electrochemical Sensing. Journal of Nanoscience and Nanotechnology, 2016, 16, 7420-7426.	0.9	12
20	Mesoporous Zinc-Nickel-Cobalt nanocomposites anchored on graphene as electrodes for electrochemical capacitors. Journal of Alloys and Compounds, 2020, 816, 152646.	5.5	12
21	Biocompatible graphene-zirconia nanocomposite as a cyto-safe immunosensor for the rapid detection of carcinoembryonic antigen. Scientific Reports, 2021, 11, 22536.	3.3	12
22	Enhancing Electroconductivity of Yttria-Stabilised Zirconia Ceramic Using Graphene Platlets. Key Engineering Materials, 2016, 690, 1-5.	0.4	11
23	Cobalt oxide nanoparticles grown on exfoliated graphene for enhanced electrochemical performance. Materials Chemistry and Physics, 2016, 183, 56-64.	4.0	11
24	A graphene-based dengue immunosensor using plant-derived envelope glycoprotein domain III (EDIII) as the novel probe antigen. Analyst, The, 2021, 146, 2009-2018.	3.5	11
25	Study on Mechanical Properties of Zirconia-Alumina Based Ceramics. Applied Mechanics and Materials, 0, 625, 81-84.	0.2	6
26	Recent developments in ceramic microthrusters and the potential applications with green propellants: a review. Clean Technologies and Environmental Policy, 2018, 20, 1941-1950.	4.1	6
27	One-step green synthesis of graphene/ZnO nanocomposites for non-enzymatic hydrogen peroxide sensing. Materiali in Tehnologije, 2015, 49, 837-840.	0.5	4
28	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.	4.7	3
29	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.	2.8	3
30	Low temperature fabrication and characterization of Si-O-C cured alumina toughened zirconia (ATZ). Materials Today: Proceedings, 2017, 4, 3005-3013.	1.8	1
31	The Effect of Different Sintering Strategies on Properties of YSZ Reinforced Graphene Composites. MATEC Web of Conferences, 2015, 26, 01001.	0.2	0