Mangilal Agarwal

List of Publications by Year
in descending order

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45 papers	1,407 citations	304743 22 h-index	330143 37 g-index
45 all docs	45 docs citations	45 times ranked	1916 citing authors

#	Article	IF	Citations
1	Synthesis of V2O5/Single-Walled Carbon Nanotubes Integrated into Nanostructured Composites as Cathode Materials in High Performance Lithium-Ion Batteries. Energies, 2022, 15, 552.	3.1	3
2	Preliminary method for profiling volatile organic compounds in breath that correlate with pulmonary function and other clinical traits of subjects diagnosed with cystic fibrosis: a pilot study. Journal of Breath Research, 2022, 16, 027103.	3.0	9
3	Higher strength carbon fiber lithiumâ€ion polymer battery embedded multifunctional composites for structural applications. Polymer Composites, 2022, 43, 2952-2962.	4.6	8
4	Exhaled VOCs can discriminate subjects with COVID-19 from healthy controls. Journal of Breath Research, 2022, 16, 036002.	3.0	14
5	Chemometric Analysis of Urinary Volatile Organic Compounds to Monitor the Efficacy of Pitavastatin Treatments on Mammary Tumor Progression over Time. Molecules, 2022, 27, 4277.	3.8	3
6	Thermoplastic polyurethane flexible capacitive proximity sensor reinforced by CNTs for applications in the creative industries. Scientific Reports, 2021, 11, 1104.	3.3	32
7	Tracking the Progression of Triple Negative Mammary Tumors over Time by Chemometric Analysis of Urinary Volatile Organic Compounds. Cancers, 2021, 13, 1462.	3.7	12
8	Comparing the Selectivity of Solid Phase Microextraction Fibers to Detect Volatile Organic Compounds. , 2021, , .		2
9	Gaussian Process Regression and Monte Carlo Simulation to Determine VOC Biomarker Concentrations Via Chemiresistive Gas Nanosensors. , 2021, , .		4
10	Overview of Nano-Fiber Mats Fabrication via Electrospinning and Morphology Analysis. Textiles, 2021, 1, 206-226.	4.1	43
11	Engineering the electrospinning of MWCNTs/epoxy nanofiber scaffolds to enhance physical and mechanical properties of CFRPs. Composites Science and Technology, 2021, 213, 108941.	7.8	22
12	Electrospun Thermosetting Carbon Nanotubeâ€“Epoxy Nanofibers. ACS Applied Polymer Materials, 2021, 3, 610-619.	4.4	15
13	Fabrication and use of silicon hollow-needle arrays to achieve tissue nanotransfection in mouse tissue in vivo. Nature Protocols, 2021, 16, 5707-5738.	12.0	17
14	Polyetherimide/carbon black composite sensors demonstrate selective detection of medium-chain aldehydes including nonanal. Chemical Engineering Journal, 2020, 383, 123104.	12.7	29
15	Mechanical stimulations can inhibit local and remote tumor progression by downregulating WISP1. FASEB Journal, 2020, 34, 12847-12859.	0.5	9
16	Mathematical Model and Experimental Design of Nanocomposite Proximity Sensors. IEEE Access, 2020, 8, 153087-153097.	4.2	14
17	Exosome-Mediated Crosstalk between Keratinocytes and Macrophages in Cutaneous Wound Healing. ACS Nano, 2020, 14, 12732-12748.	14.6	106
18	Urinary Volatile Terpenes Analyzed by Gas Chromatographyâ€“Mass Spectrometry to Monitor Breast Cancer Treatment Efficacy in Mice. Journal of Proteome Research, 2020, 19, 1913-1922.	3.7	16

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19	Loadingâ€induced antitumor capability of murine and human urine. FASEB Journal, 2020, 34, 7578-7592.	0.5	11
20	Electrospun Nanofibers for Label-Free Sensor Applications. Sensors, 2019, 19, 3587.	3.8	60
21	Pitavastatin slows tumor progression and alters urineâ€derived volatile organic compounds through the mevalonate pathway. FASEB Journal, 2019, 33, 13710-13721.	0.5	22
22	Detection of Volatile Organic Compounds (VOCs) in Urine via Gas Chromatography-Mass Spectrometry QTOF to Differentiate Between Localized and Metastatic Models of Breast Cancer. Scientific Reports, 2019, 9, 2526.	3.3	46
23	V₂O₅/Graphene Hybrid Supported on Paper Current Collectors for Flexible Ultrahigh-Capacity Electrodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 16490-16499.	8.0	33
24	Experimental Study of Material Removal at Nanoscale. Procedia Manufacturing, 2018, 26, 587-594.	1.9	1
25	Analyzing breath samples of hypoglycemic events in type 1 diabetes patients: towards developing an alternative to diabetes alert dogs. Journal of Breath Research, 2017, 11, 026007.	3.0	36
26	Unraveling the Mechanism Underlying Surface Ligand Passivation of Colloidal Semiconductor Nanocrystals: A Route for Preparing Advanced Hybrid Nanomaterials. Chemistry of Materials, 2017, 29, 8838-8849.	6.7	18
27	Elucidating the role of surface passivating ligand structural parameters in hole wave function delocalization in semiconductor cluster molecules. Nanoscale, 2017, 9, 14127-14138.	5.6	11
28	Cross-Selectivity Enhancement of Poly(vinylidene fluoride-hexafluoropropylene)-Based Sensor Arrays for Detecting Acetone and Ethanol. Sensors, 2017, 17, 595.	3.8	28
29	Poly(vinylidene fluoride-hexafluoropropylene) polymer electrolyte for paper-based and flexible battery applications. AIP Advances, 2016, 6, .	1.3	34
30	Highly Reversible Diphenyl Trisulfide Catholyte for Rechargeable Lithium Batteries. ACS Energy Letters, 2016, 1, 1221-1226.	17.4	82
31	Learning at the nano-level: Accounting for complexity in the internalization of secondary STEM teacher professional development. Teaching and Teacher Education, 2015, 51, 101-112.	3.2	31
32	Poly(vinylidene fluoride-hexafluoropropylene) composite sensors for volatile organic compounds detection in breath. Sensors and Actuators B: Chemical, 2015, 221, 635-643.	7.8	51
33	Paper-Based Lithium-Ion Batteries Using Carbon Nanotube-Coated Wood Microfibers. IEEE Nanotechnology Magazine, 2013, 12, 408-412.	2.0	21
34	Proteomic profiling of halloysite clay nanotube exposure in intestinal cell coâ€culture. Journal of Applied Toxicology, 2013, 33, 1316-1329.	2.8	68
35	A Novel Model for Integrating Nanotechnology Track in Undergraduate Engineering Degree Programs. Journal of Nano Education (Print), 2013, 5, 135-141.	0.3	1
36	A simple polymer based electrochemical transistor for micromolar glucose sensing. Sensors and Actuators B: Chemical, 2011, 157, 92-97.	7.8	29

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37	In Vitro Verification of Multiple-Receiver Doppler Ultrasound for Velocity Estimation Improvement. Ultrasound in Medicine and Biology, 2010, 36, 991-998.	1.5	0
38	Novel Thermoelectric Cooling of Magnetic Sensors. ECS Transactions, 2009, 16, 227-232.	0.5	1
39	Conductive paper from lignocellulose wood microfibers coated with a nanocomposite of carbon nanotubes and conductive polymers. Nanotechnology, 2009, 20, 215602.	2.6	67
40	A Chipless RFID Sensor System for Cyber Centric Monitoring Applications. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1303-1309.	4.6	134
41	Electrodeposition and Thermoelectric Characterization of Bismuth Telluride Nanowires. Journal of the Electrochemical Society, 2009, 156, B871.	2.9	11
42	Polymer-based microsensor for soil moisture measurement. Sensors and Actuators B: Chemical, 2008, 129, 599-604.	7.8	81
43	Bismuth Telluride Nano-Coolers for Magnetic Sensors. ECS Transactions, 2008, 13, 141-147.	0.5	1
44	Transmission line delay-based radio frequency identification (RFID) tag. Microwave and Optical Technology Letters, 2007, 49, 1900-1904.	1.4	53
45	Conductive wood microfibres for smart paper through layer-by-layer nanocoating. Nanotechnology, 2006, 17, 5319-5325.	2.6	118