

# 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	A Chipless RFID Sensor System for Cyber Centric Monitoring Applications. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1303-1309.	4.6	134
2	Conductive wood microfibrils for smart paper through layer-by-layer nanocoating. Nanotechnology, 2006, 17, 5319-5325.	2.6	118
3	Exosome-Mediated Crosstalk between Keratinocytes and Macrophages in Cutaneous Wound Healing. ACS Nano, 2020, 14, 12732-12748.	14.6	106
4	Highly Reversible Diphenyl Trisulfide Catholyte for Rechargeable Lithium Batteries. ACS Energy Letters, 2016, 1, 1221-1226.	17.4	82
5	Polymer-based microsensor for soil moisture measurement. Sensors and Actuators B: Chemical, 2008, 129, 599-604.	7.8	81
6	Proteomic profiling of halloysite clay nanotube exposure in intestinal cell culture. Journal of Applied Toxicology, 2013, 33, 1316-1329.	2.8	68
7	Conductive paper from lignocellulose wood microfibrils coated with a nanocomposite of carbon nanotubes and conductive polymers. Nanotechnology, 2009, 20, 215602.	2.6	67
8	Electrospun Nanofibers for Label-Free Sensor Applications. Sensors, 2019, 19, 3587.	3.8	60
9	Transmission line delay-based radio frequency identification (RFID) tag. Microwave and Optical Technology Letters, 2007, 49, 1900-1904.	1.4	53
10	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
11	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
12	Overview of Nano-Fiber Mats Fabrication via Electrospinning and Morphology Analysis. Textiles, 2021, 1, 206-226.	4.1	43
13	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
14	Poly(vinylidene fluoride-hexafluoropropylene) polymer electrolyte for paper-based and flexible battery applications. AIP Advances, 2016, 6, .	1.3	34
15	V <sub>2</sub> O <sub>5</sub> /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
16	Thermoplastic polyurethane flexible capacitive proximity sensor reinforced by CNTs for applications in the creative industries. Scientific Reports, 2021, 11, 1104.	3.3	32
17	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
18	A simple polymer based electrochemical transistor for micromolar glucose sensing. Sensors and Actuators B: Chemical, 2011, 157, 92-97.	7.8	29

#	ARTICLE	IF	CITATIONS
19	Polyetherimide/carbon black composite sensors demonstrate selective detection of medium-chain aldehydes including nonanal. <i>Chemical Engineering Journal</i> , 2020, 383, 123104.	12.7	29
20	Cross-Selectivity Enhancement of Poly(vinylidene fluoride-hexafluoropropylene)-Based Sensor Arrays for Detecting Acetone and Ethanol. <i>Sensors</i> , 2017, 17, 595.	3.8	28
21	Pitavastatin slows tumor progression and alters urine-derived volatile organic compounds through the mevalonate pathway. <i>FASEB Journal</i> , 2019, 33, 13710-13721.	0.5	22
22	Engineering the electrospinning of MWCNTs/epoxy nanofiber scaffolds to enhance physical and mechanical properties of CFRPs. <i>Composites Science and Technology</i> , 2021, 213, 108941.	7.8	22
23	Paper-Based Lithium-Ion Batteries Using Carbon Nanotube-Coated Wood Microfibers. <i>IEEE Nanotechnology Magazine</i> , 2013, 12, 408-412.	2.0	21
24	Unraveling the Mechanism Underlying Surface Ligand Passivation of Colloidal Semiconductor Nanocrystals: A Route for Preparing Advanced Hybrid Nanomaterials. <i>Chemistry of Materials</i> , 2017, 29, 8838-8849.	6.7	18
25	Fabrication and use of silicon hollow-needle arrays to achieve tissue nanotransfection in mouse tissue in vivo. <i>Nature Protocols</i> , 2021, 16, 5707-5738.	12.0	17
26	Urinary Volatile Terpenes Analyzed by Gas Chromatography-Mass Spectrometry to Monitor Breast Cancer Treatment Efficacy in Mice. <i>Journal of Proteome Research</i> , 2020, 19, 1913-1922.	3.7	16
27	Electrospun Thermosetting Carbon Nanotube-Epoxy Nanofibers. <i>ACS Applied Polymer Materials</i> , 2021, 3, 610-619.	4.4	15
28	Mathematical Model and Experimental Design of Nanocomposite Proximity Sensors. <i>IEEE Access</i> , 2020, 8, 153087-153097.	4.2	14
29	Exhaled VOCs can discriminate subjects with COVID-19 from healthy controls. <i>Journal of Breath Research</i> , 2022, 16, 036002.	3.0	14
30	Tracking the Progression of Triple Negative Mammary Tumors over Time by Chemometric Analysis of Urinary Volatile Organic Compounds. <i>Cancers</i> , 2021, 13, 1462.	3.7	12
31	Electrodeposition and Thermoelectric Characterization of Bismuth Telluride Nanowires. <i>Journal of the Electrochemical Society</i> , 2009, 156, B871.	2.9	11
32	Elucidating the role of surface passivating ligand structural parameters in hole wave function delocalization in semiconductor cluster molecules. <i>Nanoscale</i> , 2017, 9, 14127-14138.	5.6	11
33	Loading-induced antitumor capability of murine and human urine. <i>FASEB Journal</i> , 2020, 34, 7578-7592.	0.5	11
34	Mechanical stimulations can inhibit local and remote tumor progression by downregulating WISP1. <i>FASEB Journal</i> , 2020, 34, 12847-12859.	0.5	9
35	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. <i>Journal of Breath Research</i> , 2022, 16, 027103.	3.0	9
36	Higher strength carbon fiber lithium-ion polymer battery embedded multifunctional composites for structural applications. <i>Polymer Composites</i> , 2022, 43, 2952-2962.	4.6	8

#	ARTICLE	IF	CITATIONS
37	Gaussian Process Regression and Monte Carlo Simulation to Determine VOC Biomarker Concentrations Via Chemiresistive Gas Nanosensors. , 2021, , .		4
38	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
39	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
40	Comparing the Selectivity of Solid Phase Microextraction Fibers to Detect Volatile Organic Compounds. , 2021, , .		2
41	Bismuth Telluride Nano-Coolers for Magnetic Sensors. ECS Transactions, 2008, 13, 141-147.	0.5	1
42	Novel Thermoelectric Cooling of Magnetic Sensors. ECS Transactions, 2009, 16, 227-232.	0.5	1
43	Experimental Study of Material Removal at Nanoscale. Procedia Manufacturing, 2018, 26, 587-594.	1.9	1
44	A Novel Model for Integrating Nanotechnology Track in Undergraduate Engineering Degree Programs. Journal of Nano Education (Print), 2013, 5, 135-141.	0.3	1
45	In Vitro Verification of Multiple-Receiver Doppler Ultrasound for Velocity Estimation Improvement. Ultrasound in Medicine and Biology, 2010, 36, 991-998.	1.5	0