

Suwarna S Datar

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.

57
papers

1,130
citations

16
h-index

32
g-index

63
ext. papers

1,333
ext. citations

3.9
avg, IF

4.73
L-index

#	Paper	IF	Citations
57	Polymer modified quartz tuning fork (QTF) sensor array for detection of breath as a biomarker for diabetes. <i>Sensors and Actuators B: Chemical</i> , 2022 , 358, 131524	8.5	0
56	Ultrasonically assisted solvohydrothermal synthesis of nanocrystalline Zn-Ni ferrite advanced material for EMI shielding. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164199	5.7	0
55	Detection of Binary and Ternary Mixtures of Volatile Organic Compounds using Quartz Tuning Fork based Sensor Array. <i>Sensors and Actuators A: Physical</i> , 2021 , 332, 113198	3.9	0
54	Stabilizing Metastable Polymorphs of van der Waals Solid MoS ₂ on Single Crystal Oxide Substrates: Exploring the Possible Role of Surface Chemistry and Structure. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 11216-11224	3.8	4
53	Polymer-Modified Quartz Tuning Forks for Breath Biomarker Sensing. <i>Engineering Proceedings</i> , 2021 , 6, 62	0.5	
52	Optically transparent polymer composites: A study on the influence of filler/dopant on electromagnetic interference shielding mechanism. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50255 ²⁻⁹	2.9	4
51	Miniaturization of transition metal hydroxides to hydroxide dots: A direction to realize giant cyclic stability and electrochemical performance. <i>International Journal of Energy Research</i> , 2021 , 45, 20356	4.5	3
50	Development of a Polymer Modified Quartz Tuning Fork (QTF) Sensor Array-Based Volatile Organic Compound (VOC) Classifier. <i>IEEE Sensors Journal</i> , 2021 , 21, 20870-20877	4	1
49	Nanocomposite engineered carbon fabric-mat as a passive metamaterial for stealth application. <i>Journal of Alloys and Compounds</i> , 2020 , 848, 155771	5.7	15
48	Co/Co ₃ O ₄ Based Nanoparticles and Their Polymer Composites for Tuned Electromagnetic Interference Shielding Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 2847-2857	1.3	2
47	Wideband (8–18 GHz) microwave absorption dominated electromagnetic interference (EMI) shielding composite using copper aluminum ferrite and reduced graphene oxide in polymer matrix. <i>Journal of Applied Physics</i> , 2020 , 128, 104902	2.5	13
46	Nickel Nanoparticle-Filled High-Performance Polymeric Nanocomposites for EMI Shielding Applications. <i>Journal of Electronic Materials</i> , 2020 , 49, 1630-1637	1.9	9
45	Modified graphene as a conducting ink for electromagnetic interference shielding. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 375302	3	10
44	Effect of formation of heterostructure of SrAl ₄ Fe ₈ O ₁₉ /RGO/PVDF on the microwave absorption properties of the composite. <i>Chemical Engineering Journal</i> , 2019 , 374, 144-154	14.7	51
43	SrAl ₄ Fe ₈ O ₁₉ hexaferrite and reduced graphene oxide: For microwave absorption application 2019 ,		2
42	Coexisting 1T/2H polymorphs, reentrant resistivity behavior, and charge distribution in MoS ₂ /BN 2D/2D composite thin films. <i>Physical Review Materials</i> , 2019 , 3,	3.2	7
41	Hydroxyapatite nanorods loaded with parathyroid hormone (PTH) synergistically enhance the net formative effect of PTH anabolic therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 15, 218-230	6	8

40	Quartz tuning fork based sensor for detection of volatile organic compounds: towards breath analysis. <i>Materials Research Express</i> , 2018 , 5, 045407	1.7	3
39	Microwave absorption properties of reduced graphene oxide strontium hexaferrite/poly(methyl methacrylate) composites. <i>Nanotechnology</i> , 2018 , 29, 115605	3.4	55
38	Investigation of dielectric properties of free standing electrospun nonwoven mat. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46121	2.9	22
37	Enhanced microwave absorption property of Reduced Graphene Oxide (RGO) Strontium Hexaferrite (SF)/Poly (Vinylidene) Fluoride (PVDF). <i>Diamond and Related Materials</i> , 2018 , 89, 28-34	3.5	23
36	Correlation between the magnetic-microstructure and microwave mitigation ability of MCoFeO based ferrite-carbon black/PVA composites. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 26431-26442	3.6	7
35	Flexible and Transparent EMI Shielding Materials 2018 , 167-175		2
34	Structural and electronic investigation of metal-semiconductor hybrid tetrapod hetero-structures. <i>Gold Bulletin</i> , 2017 , 50, 105-110	1.6	5
33	Study of modification of photo active material with carbon nanostructures for polymer solar cell applications. <i>Materials Today Communications</i> , 2017 , 12, 11-18	2.5	5
32	Quartz tuning fork based portable sensor for vapor phase detection of methanol adulteration of ethanol by using aniline-doped polystyrene microwires. <i>Mikrochimica Acta</i> , 2017 , 184, 1659-1667	5.8	15
31	Observation of magnetism in La _{0.7} Sr _{0.3} MnO ₃ /graphene nanoribbons complex: a probable magnetoelectronic material study. <i>Materials Research Express</i> , 2017 , 4, 075050	1.7	1
30	Decoration of gold nanoparticles on thin multiwall carbon nanotubes and their use as a glucose sensor. <i>Materials Research Express</i> , 2016 , 3, 035008	1.7	3
29	Dielectric investigation of a conducting fibrous nonwoven porous mat fabricated by a one-step facile electrospinning process. <i>RSC Advances</i> , 2016 , 6, 36588-36598	3.7	54
28	An attempt to correlate surface physics with chemical properties: molecular beam and Kelvin probe investigations of CeZrO thin films. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27594-27602	3.6	8
27	Nano-carbon: preparation, assessment, and applications for NH ₃ gas sensor and electromagnetic interference shielding. <i>RSC Advances</i> , 2016 , 6, 97266-97275	3.7	30
26	Electromagnetic interference shielding in 1-18 GHz frequency and electrical property correlations in poly(vinylidene fluoride)-multi-walled carbon nanotube composites. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 20347-60	3.6	61
25	Preparation of Ni ₃ S ₂ and Ni ₃ S ₂ /Ni Nanosheets via Solution Based Processes. <i>Crystal Growth and Design</i> , 2015 , 15, 2584-2588	3.5	6
24	Hysteretic DC electrowetting by field-induced nano-structurations on polystyrene films. <i>Soft Matter</i> , 2015 , 11, 2655-64	3.6	5
23	Processing of graphene nanoribbon based hybrid composite for electromagnetic shielding. <i>Composites Part B: Engineering</i> , 2015 , 69, 472-477	10	109

22	Carbon nanostructure composite for electromagnetic interference shielding 2015 , 84, 1099-1116		65
21	Investigation of QTF based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2015 , 216, 586-594	8.5	15
20	QTF based methanol sensors 2015 ,		2
19	Curcumin-Loaded, Self-Assembled Aloe vera Template for Superior Antioxidant Activity and Trans-Membrane Drug Release. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 4039-45	1.3	22
18	Photon assisted conducting atomic force microscopy study of nanostructured additives in P3HT:PCBM. <i>RSC Advances</i> , 2015 , 5, 102795-102802	3.7	16
17	Grain boundary engineering of La _{0.7} Sr _{0.3} MnO ₃ films on silicon substrate: Scanning Tunneling Microscopy-Spectroscopy study. <i>Physica B: Condensed Matter</i> , 2014 , 448, 85-89	2.8	1
16	Catalytic activity of allamanda mediated phytosynthesized anisotropic gold nanoparticles. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2013 , 4, 045005	1.6	5
15	Curcumin conjugated silica nanoparticles for improving bioavailability and its anticancer applications. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 9632-7	5.7	75
14	Charge storage and electron transport properties of gold nanoparticles decorating a urethane-methacrylate comb polymer network. <i>Nanoscale</i> , 2013 , 5, 4404-11	7.7	15
13	Mixed phase, sp ² sp ³ bonded, and disordered few layer graphene-like nanocarbon: Synthesis and characterizations. <i>Applied Surface Science</i> , 2013 , 271, 86-92	6.7	17
12	Graphene nanoribbon-PVA composite as EMI shielding material in the X band. <i>Nanotechnology</i> , 2013 , 24, 455705	3.4	74
11	Conjugation of curcumin with PVP capped gold nanoparticles for improving bioavailability. <i>Materials Science and Engineering C</i> , 2012 , 32, 2659-2663	8.3	93
10	Lithium niobate nanoparticulate clad on the core of single mode optical fiber for temperature and magnetic field sensing. <i>Applied Physics Letters</i> , 2012 , 101, 043102	3.4	11
9	Reversible Aggregation Control of Polyvinylpyrrolidone Capped Gold Nanoparticles as a Function of pH. <i>Materials Express</i> , 2012 , 2, 311-318	1.3	41
8	Growth Mechanism of Cadmium Sulfide Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 304-308	8.8	13
7	Scanning tunneling microscopy/spectroscopy on Au nanoparticles assembled using lauryl amine (LAM) and octadecane thiol (ODT). <i>Applied Surface Science</i> , 2007 , 253, 5109-5115	6.7	1
6	Self-organization of polyaniline nanorods: Towards achieving a higher conductivity. <i>Applied Physics Letters</i> , 2005 , 87, 093117	3.4	14
5	Scanning tunneling microscopy/spectroscopy of titanium dioxide nanoparticulate film on Au() surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004 , 232, 11-17	5.1	12

4	Scanning force microscopy and amplitude versus distance measurements on single-crystal oxide surfaces. <i>Surface and Interface Analysis</i> , 2004 , 36, 213-219	1.5	0
3	DNA-mediated electrostatic assembly of gold nanoparticles into linear arrays by a simple drop-coating procedure. <i>Applied Physics Letters</i> , 2001 , 78, 2943-2945	3-4	75
2	N, H Dual-Doped Black Anatase TiO ₂ Thin Films toward Significant Self-Activation in Electrocatalytic Hydrogen Evolution Reaction in Alkaline Media. <i>Advanced Energy and Sustainability Research</i> , 2100137	1.6	3
1	Metamaterial Microwave Absorber (MMA) for Electromagnetic Interference (EMI) Shielding in X-Band. <i>Plasmonics</i> , 1	2.4	3