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List of Publications by Year
in descending order

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115 papers	2,036 citations	293460 24 h-index	355658 38 g-index
117 all docs	117 docs citations	117 times ranked	2439 citing authors

#	Article	IF	Citations
1	Combined effect of Phoenix dactylifera biodiesel and multiwalled carbon nanotubeâ€“titanium dioxide nanoparticles for modified diesel engines. International Journal of Environmental Science and Technology, 2022, 19, 515-540.	1.8	12
2	Ionized cocatalyst to promote CO2 photoreduction activity over coreâ€“triple-shell ZnO hollow spheres. Rare Metals, 2022, 41, 1077-1079.	3.6	20
3	Characteristics, properties, synthesis and advanced applications of 2D graphdiyne versus graphene. Materials Chemistry Frontiers, 2022, 6, 528-552.	3.2	14
4	Two-dimensional material-based printed photonics: a review. 2D Materials, 2022, 9, 042003.	2.0	5
5	Synthesis, Nanoformulations, and In Vitro Anticancer Activity of N-Substituted Side Chain Neocryptolepine Scaffolds. Molecules, 2022, 27, 1024.	1.7	5
6	Vanadium Disulfide Nanosheets Synthesized by Facile Liquidâ€Phase Exfoliation for Ammonia Detection with High Selectivity. Advanced Electronic Materials, 2022, 8, .	2.6	9
7	Molecular engineering control defects within carbon nitride for optimized co-catalyst Pt induced photocatalytic CO2 reduction and NO2 oxidation reaction. International Journal of Hydrogen Energy, 2022, 47, 14280-14293.	3.8	24
8	Twoâ€Dimensional Nitrogenâ€Doped Ti₃C₂ Promoted Catalysis Performance of Silver Nanozyme for Ultrasensitive Detection of Hydrogen Peroxide. ChemElectroChem, 2022, 9, .	1.7	8
9	New insights to atherosclerosis management: Role of nanomaterials. Applied Materials Today, 2022, 27, 101466.	2.3	3
10	TRAVELING WAVE SOLUTIONS TO A MATHEMATICAL MODEL OF FRACTIONAL ORDER (2+1)-DIMENSIONAL BREAKING SOLITON EQUATION. Fractals, 2022, 30, .	1.8	5
11	A facile molecular aggregation of isoquinoline based g-C3N4 for high photocatalytic performance under visible light illumination. Materials Research Bulletin, 2022, 152, 111865.	2.7	27
12	A CRISPR/Cas12a-empowered surface plasmon resonance platform for rapid and specific diagnosis of the Omicron variant of SARS-CoV-2. National Science Review, 2022, 9, .	4.6	56
13	Optical-intensity modulators with PbTe thermoelectric nanopowders for ultrafast photonics. Applied Materials Today, 2022, 28, 101546.	2.3	38
14	Enhanced photocatalytic overall water splitting from an assembly of donor-Ï€-acceptor conjugated polymeric carbon nitride. Journal of Colloid and Interface Science, 2022, 624, 411-422.	5.0	26
15	Microwave Irradiation and Glutamic Acid-Assisted Phytotreatment of Textile and Surgical Industrial Wastewater by Sorghum. Molecules, 2022, 27, 4004.	1.7	3
16	Silver Nanowires Digital Printing for Inverted Flexible Semiâ€Transparent Solar Cells. Advanced Engineering Materials, 2021, 23, 2001305.	1.6	16
17	Solvothermal synthesis of kesterite Cu2ZnSnS4 nanocrystals: Influence of glycine complexing agent concentration on properties. Ceramics International, 2021, 47, 11568-11573.	2.3	8
18	Digital printing of a novel electrode for stable flexible organic solar cells with a power conversion efficiency of 8.5%. Scientific Reports, 2021, 11, 14212.	1.6	10

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19	Synthesis of Ti3C2Fx MXene with controllable fluorination by electrochemical etching for lithium-ion batteries applications. Ceramics International, 2021, 47, 28642-28649.	2.3	38
20	MXene-based mixed-dimensional Schottky heterojunction towards self-powered flexible high-performance photodetector. Materials Today Physics, 2021, 21, 100479.	2.9	13
21	2D materials for bone therapy. Advanced Drug Delivery Reviews, 2021, 178, 113970.	6.6	23
22	From phosphorus to phosphorene: Applications in disease theranostics. Coordination Chemistry Reviews, 2021, 446, 214110.	9.5	77
23	Advanced opportunities and insights on the influence of nitrogen incorporation on the physico-/electro-chemical properties of robust electrocatalysts for electrocatalytic energy conversion. Coordination Chemistry Reviews, 2021, 449, 214209.	9.5	28
24	Tailoring the ultrafast and nonlinear photonics of MXenes through elemental replacement. Nanoscale, 2021, 13, 15891-15898.	2.8	11
25	Molecular Dynamics and Energy Transfer in Pure Aniline and Rh101⁺/Aniline Mixed Solution Measured by Ultrafast Spectroscopy. ChemistrySelect, 2021, 6, 10998-11001.	0.7	0
26	Mathematical modeling and optimal control of the COVID-19 dynamics. Results in Physics, 2021, 31, 105028.	2.0	82
27	Strategic Design of Intelligent-Responsive Nanogel Carriers for Cancer Therapy. ACS Applied Materials & Interfaces, 2021, 13, 54621-54647.	4.0	43
28	CdS@CdSe Core/Shell Quantum Dots for Highly Improved Self-Powered Photodetection Performance. Inorganic Chemistry, 2021, 60, 18608-18613.	1.9	28
29	Size-controlling of Cu2ZnSnS4 nanoparticles: Effects of stabilizing/reducing agents on material properties. Results in Physics, 2020, 19, 103407.	2.0	6
30	Highly conductive polyaniline/graphene nano-platelet composite sensor towards detection of toluene and benzene gases. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	36
31	Microwave properties of natural rubber based composites containing carbon black-magnetite hybrid fillers. Science and Engineering of Composite Materials, 2018, 25, 611-620.	0.6	2
32	Preparation and Characterisation of Natural Rubber Composites Comprising Hybrid Fillers of Activated Carbon / in situ Synthesised Magnetite. Journal of Rubber Research (Kuala Lumpur, Malaysia), 2018, 21, 94-118.	0.4	3
33	Investigation on the Influence of Various Kinds of Soaps on the Mechanical Properties of Silica Filled Composites Based on Natural Rubber. Polymers and Polymer Composites, 2018, 26, 325-334.	1.0	2
34	Highly sensitive ethylene glycol-doped PEDOTâ€“PSS organic thin films for LPG sensing. RSC Advances, 2018, 8, 18074-18083.	1.7	40
35	Characterization of hybrid fillers based on carbon black of different types obtained by impregnation. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2017, 231, 584-599.	0.7	4
36	Microemulsion synthesis, structural characterization and dielectric properties of Ba 1-x Pb x ZrO 3 (0.05 â‰¤ x â‰¤ 0.20) nanoparticles. Materials Research Bulletin, 2017, 89, 185-192.	2.7	10

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37	Enhancing antenna performance and SAR reduction by a conductive composite loaded with carbon-silica hybrid filler. AEU - International Journal of Electronics and Communications, 2017, 72, 184-191.	1.7	19
38	Optical properties of nanostructured ruthenium dioxide thin films via solâ€“gel approach. Journal of Materials Science: Materials in Electronics, 2017, 28, 52-59.	1.1	17
39	Reverse micellar synthesis, structural characterization and dielectric properties of Sr-doped BaZrO3 nanoparticles. Materials Chemistry and Physics, 2017, 185, 31-38.	2.0	13
40	Solvothermal synthesis of Zn1âˆ'Mn O nanoparticles using oxalate precursor route: Optical and magnetic properties. Arabian Journal of Chemistry, 2017, 10, S2138-S2144.	2.3	3
41	Effect of Silica Phase on Certain Properties of Natural Rubber Based Composites Reinforced by Carbon Black/Silica Hybrid Fillers. Progress in Rubber, Plastics and Recycling Technology, 2017, 33, 221-242.	0.8	3
42	Effect of carbonâ€“silica dual phase filler obtained by impregnation method on the properties of SBR-based composites. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016, 230, 116-120.	0.7	4
43	Synthesis, characterization, dielectric and rectification properties of PANI/Nd₂O₃:Al₂O₃nanocomposites. Polymers for Advanced Technologies, 2016, 27, 1064-1071.	1.6	28
44	Conductivity and dielectric properties of PEDOT-PSS doped DMSO nano composite thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 8332-8339.	1.1	47
45	Microwave properties of natural rubber based composites comprising conductive carbon black/silica hybrid fillers. Journal of Polymer Research, 2016, 23, 1.	1.2	7
46	Influence of bis(triethoxysilylpropyl) tetrasulfide amount on the properties of silica-filled epoxidized natural rubber-based composites. Science and Engineering of Composite Materials, 2016, 23, 357-362.	0.6	0
47	Dielectric and microwave properties of elastomer composites loaded with carbonâ€“silica hybrid fillers. Journal of Applied Polymer Science, 2016, 133, .	1.3	6
48	Conductive carbon black/magnetite hybrid fillers in microwave absorbing composites based on natural rubber. Composites Part B: Engineering, 2016, 96, 231-241.	5.9	80
49	Influence of carbon black/silica ratio on the physical and mechanical properties of composites based on epoxidized natural rubber. Journal of Composite Materials, 2016, 50, 377-386.	1.2	16
50	Preparation and Characterization of Natural Rubber Composites Comprising Conductive Carbon Black/Magnetite Hybrid Fillers Obtained by Impregnation Technology. Polymer-Plastics Technology and Engineering, 2016, 55, 1344-1356.	1.9	2
51	Synthesis, characterization, and dielectric studies of ortho-chloropolyanilineâ€“graphite oxide composites. Journal of Materials Research, 2015, 30, 2310-2318.	1.2	8
52	Effect of the Carbon-Silica Reinforcing Filler Obtained from the Pyrolysis-Cum-Water Vapour of Waste Green Tyres upon the Properties of Natural Rubber Based Composites. Progress in Rubber, Plastics and Recycling Technology, 2015, 31, 25-41.	0.8	7
53	Frequency Dependent Dielectric and I-V Properties of Polyaniline/Ta₂O₅Composites. Ferroelectrics, Letters Section, 2015, 42, 122-131.	0.4	1
54	Humidity sensing properties of surface modified polyaniline ZnO nanocomposites. Sensor Review, 2015, 35, 366-373.	1.0	4

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55	Characterization of carbon silica hybrid fillers obtained by pyrolysis of waste green tires by the STEMâ€“EDX method. Materials Characterization, 2015, 101, 90-96.	1.9	8
56	Comparison of the Dielectric Thermal Properties and Dynamic Mechanical Thermal Properties of Natural Rubber-Based Composites Comprising Multiwall Carbon Nanotubes and Graphene Nanoplatelets. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 1001-1007.	1.0	8
57	Low temperature chemical synthesis and comparative studies of silver oxide nanoparticles. Journal of Molecular Structure, 2015, 1084, 9-15.	1.8	25
58	Novel polyvinyl alcohol/silver hybrid nanocomposites for high performance electromagnetic wave shielding effectiveness. Microsystem Technologies, 2015, 21, 859-868.	1.2	25
59	Synthesis and characterization of poly(vinyl alcohol)-acid salt polymer electrolytes. Materials Express, 2014, 4, 483-490.	0.2	11
60	Effects of Multi-walled Carbon Nanotubes on the Dielectric and Microwave Properties of Natural Rubber-based Composites. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 618-629.	1.0	6
61	Improvement of photoresponse properties of NiO/p-Si photodiodes by copper dopant. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 288-295.	1.3	38
62	Effect of gold ion concentration on size and properties of gold nanoparticles in TritonX-100 based inverse microemulsions. Applied Nanoscience (Switzerland), 2014, 4, 491-498.	1.6	49
63	Semiconducting properties of Al doped ZnO thin films. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 131, 512-517.	2.0	129
64	Fabrication and gas sensitivity in heterostructures of ortho-chloropolyanilineâ€“ZnO nanocomposites. RSC Advances, 2014, 4, 39844-39852.	1.7	11
65	The electrical characterization of ZnO/GaAs heterojunction diode. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 64, 240-245.	1.3	23
66	Dielectric and Microwave Properties of Fullerenes Containing Natural Rubber-based Nanocomposites. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 332-345.	1.0	4
67	High performance organic-on-inorganic hybrid photodiodes based on organic semiconductor-graphene oxide blends. Synthetic Metals, 2014, 195, 217-221.	2.1	29
68	Dielectric and microwave properties of polyvinyl chloride/graphite/nickel composites and its applications. Journal of Thermoplastic Composite Materials, 2014, 27, 528-540.	2.6	5
69	On the prospects of conducting polyaniline/natural rubber composites for electromagnetic shielding effectiveness applications. Journal of Thermoplastic Composite Materials, 2014, 27, 765-782.	2.6	14
70	Synthesis, characterization, photocatalytic and photovoltaic performance of Ag-doped TiO2 loaded on the Ptâ€“carbon spheres. Materials Science in Semiconductor Processing, 2014, 27, 71-78.	1.9	9
71	Synthesis and characterisation of double-walled carbon nanotube/cobalt oxide nanocomposite for the application of anode material for lithium ion batteries. International Journal of Nanoparticles, 2014, 7, 133.	0.1	2
72	Metal Organic Precursor Route for Pb-Substituted BaZrO₃ Nanoceramics: Structural Characterization and Properties. Advanced Science Letters, 2014, 20, 1354-1359.	0.2	9

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73	Preparation of Tungsten Trioxide Nanorods by Hydrothermal Route: n-Tungsten Trioxide Nanorods/p-Silicon pâ€“n Junction. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 327-333.	0.1	9
74	Electromagnetic wave shielding and microwave absorbing properties of hybrid epoxy resin/foliated graphite nanocomposites. Journal of Applied Polymer Science, 2013, 127, 2227-2234.	1.3	30
75	Novel photoconductive Ag/nanostructure ruthenium oxide/p-type silicon Schottky barrier diode by solâ€“gel method. Journal of Sol-Gel Science and Technology, 2013, 67, 368-375.	1.1	15
76	A pentacene thin film transistor with good performance using solâ€“gel derived SiO2 gate dielectric layer. Solid State Sciences, 2013, 16, 111-116.	1.5	14
77	Effect of nanocrystallization on the structural and electrical conductivity enhancement of vanadium-based glasses. Journal of Materials Science, 2013, 48, 3067-3074.	1.7	2
78	Effect of Matrix Chemical Nature on the Properties of Composites for Microwave Absorbers. Polymer-Plastics Technology and Engineering, 2013, 52, 1113-1121.	1.9	9
79	Synthesis, magnetic and ethanol gas sensing properties of semiconducting magnetite nanoparticles. Solid State Sciences, 2013, 19, 111-116.	1.5	19
80	Threshold voltage under white light illumination of zinc oxide based TFT in saturation regime. Superlattices and Microstructures, 2013, 62, 12-20.	1.4	6
81	Controlling of photoresponse properties of pentacene thin film phototransistors by dielectric layer thickness and channel widths. Synthetic Metals, 2013, 179, 94-115.	2.1	12
82	Characterization and modeling of TIPS-pentacene-poly(3-hexyl) thiophene blend organic thin film transistor. Synthetic Metals, 2013, 185-186, 153-158.	2.1	10
83	Controlling of conduction mechanism and electronic parameters of siliconâ€“metal junction by mixed Methylene Blue/2â€²-7â€²-dichlorofluorescein. Microelectronics Reliability, 2013, 53, 1901-1906.	0.9	21
84	Comparison of microwave absorbing properties of chloroprene rubber composites containing carbon black and nickel/cobalt powder. Journal of Elastomers and Plastics, 2013, 45, 471-485.	0.7	6
85	Effect of high manganese substitution at ZnO host lattice using solvothermal method: Structural characterization and properties. Materials Chemistry and Physics, 2013, 138, 519-528.	2.0	20
86	Dielectric and microwave properties of natural rubber-based composites tailored by the fillers specific features. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2013, 227, 168-176.	0.7	0
87	Dielectric properties of Ba_{1-x}Sr_xZrO₃ (0 â‰¤ x â‰¤) Tj ETQq1 1 0.784314 rg 1070-1077.	1.2	22
88	Effect of carbon nanotubes and graphene nanoplatelets on the dielectric and microwave properties of natural rubber composites. Advanced Composite Materials, 2013, 22, 361-376.	1.0	16
89	Dielectric and microwave properties of carbon nanotubes/carbon black filled natural rubber composites. Plastics, Rubber and Composites, 2012, 41, 408-412.	0.9	5
90	Electrocatalytic Reduction of Oxygen on Ni/Graphite Nanoparticles. Journal of Fuel Cell Science and Technology, 2012, 9, .	0.8	2

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91	Synthesis, characterization, and dielectric properties of nanocrystalline Ba1â^'xPbxZrO3 (0 â‰¤ x â‰¤ 0.75) by polymeric citrate precursor route. Journal of Materials Research, 2012, 27, 2479-2488.	1.2	15
92	Controlling of crystal size and optical band gap of CdO nanopowder semiconductors by low and high Fe contents. Journal of Electroceramics, 2012, 29, 155-162.	0.8	47
93	Synthesis and characterization of nanostructured aluminum borate by solâ€“gel method. Journal of Sol-Gel Science and Technology, 2012, 64, 100-103.	1.1	17
94	Fabrication and electrical characterization of transparent NiO/ZnO pâ€“n junction by the solâ€“gel spin coating method. Journal of Sol-Gel Science and Technology, 2012, 64, 219-223.	1.1	19
95	Optical properties of nanostructure boron doped NiO thin films. Journal of Sol-Gel Science and Technology, 2012, 64, 728-733.	1.1	37
96	Photodiodes based on graphene oxideâ€“silicon junctions. Solar Energy, 2012, 86, 2961-2966.	2.9	93
97	Dynamic charge transport in pentacene and zinc oxide thin-film transistors: Dark and UV illumination conditions. Synthetic Metals, 2012, 162, 1681-1688.	2.1	5
98	Dynamic mechanical thermal analysis and dielectric thermal analysis of siloxane rubber-based composites filled with carbon black. Journal of Composite Materials, 2012, 46, 1765-1770.	1.2	6
99	Influence of matrices chemical nature on the dynamic mechanical and dielectric properties of rubber composites comprising conductive carbon black. Journal of Polymer Research, 2012, 19, 1.	1.2	3
100	Properties of Natural Rubber-Based Composites Containing Fullerene. International Journal of Polymer Science, 2012, 2012, 1-8.	1.2	16
101	Some Factors Determining the Volume Resistivity of Filled Natural-Rubber-Based Nanocomposites. Progress in Rubber, Plastics and Recycling Technology, 2012, 28, 95-110.	0.8	5
102	Novel electromagnetic interference shielding effectiveness in the microwave band of magnetic nitrile butadiene rubber/magnetite nanocomposites. Journal of Applied Polymer Science, 2012, 125, 2604-2613.	1.3	30
103	A novel synthesis and optical properties of cuprous oxide nano octahedrons via microwave hydrothermal route. Journal of Sol-Gel Science and Technology, 2012, 63, 187-193.	1.1	8
104	Thermophysical properties of foliated graphite/nickel reinforced polyvinyl chloride nanocomposites. Journal of Applied Polymer Science, 2012, 124, 1144-1153.	1.3	7
105	A DNA Biosensor Based Interface States of a Metal-Insulator-Semiconductor Diode for Biotechnology Applications. Acta Physica Polonica A, 2012, 121, 673-677.	0.2	8
106	Pressure Sensors Based on Polyvinyl Chloride/Graphite/Nickel Nanocomposites. Journal of Elastomers and Plastics, 2011, 43, 137-153.	0.7	6
107	Dielectric and Microwave Properties of Siloxane Rubber/Carbon Black Nanocomposites and Their Correlation. International Journal of Polymer Science, 2011, 2011, 1-7.	1.2	10
108	Influence of Carbon Black Structure and Specific Surface Area on the Mechanical and Dielectric Properties of Filled Rubber Composites. International Journal of Polymer Science, 2011, 2011, 1-8.	1.2	24

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109	Synthesis of Double Wall Carbon Nanotubes Using Sulfur as Catalyst. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.2	0
110	Influence of graphite nanosheets on the structure and properties of PVC-based nanocomposites. Journal of Applied Polymer Science, 2011, 120, 3628-3634.	1.3	25
111	New Resistive Switching and Self-Regulating Heating in Foliated Graphite/Nickel Polyvinyl Chloride Nanocomposites. Journal of Nanomaterials, 2011, 2011, 1-10.	1.5	2
112	Preparation of Copper Oxide (CuO) Nanoparticles and their Bactericidal Activity. International Journal of Manufacturing, Materials, and Mechanical Engineering, 2011, 1, 58-64.	0.3	1
113	Investigation of the 4Hâ€“SiC surface. Applied Surface Science, 2008, 254, 8098-8105.	3.1	25
114	Role of triethanolamine in forming Cu 2 ZnSnS 4 nanoparticles during solvothermal processing for solar cell applications. International Journal of Energy Research, 0, , .	2.2	3
115	Two-dimensional Material based Printed Photonics: A Review. 2D Materials, 0, , .	2.0	0