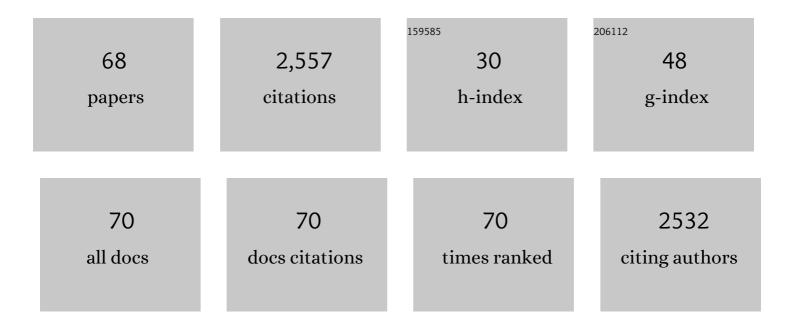
List of Publications by Year in descending order

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PAIFEV KIIMAD

#	Article	IF	CITATIONS
1	Lightweight and Easily Foldable MCMB-MWCNTs Composite Paper with Exceptional Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2016, 8, 10600-10608.	8.0	188
2	Effective improvement of the properties of light weight carbon foam by decoration with multi-wall carbon nanotubes. Journal of Materials Chemistry A, 2013, 1, 5727.	10.3	154
3	Carbon encapsulated nanoscale iron/iron-carbide/graphite particles for EMI shielding and microwave absorption. Physical Chemistry Chemical Physics, 2017, 19, 23268-23279.	2.8	148
4	Integration of MCMBs/MWCNTs with Fe <sub>3</sub> O <sub>4</sub> in a flexible and light weight composite paper for promising EMI shielding applications. Journal of Materials Chemistry C, 2017, 5, 322-332.	5.5	94
5	Improved electromagnetic interference shielding effectiveness of light weight carbon foam by ferrocene accumulation. RSC Advances, 2013, 3, 4145.	3.6	91
6	Lightweight, high electrical and thermal conducting carbon-rGO composites foam for superior electromagnetic interference shielding. Composites Part B: Engineering, 2019, 160, 131-139.	12.0	86
7	Potential of graphene-based materials to combat COVID-19: properties, perspectives, and prospects. Materials Today Chemistry, 2020, 18, 100385.	3.5	86
8	Excellent EMI shielding performance and thermal insulating properties in lightweight, multifunctional carbon-cenosphere composite foams. Composites Part A: Applied Science and Manufacturing, 2018, 112, 475-484.	7.6	70
9	Development of mesophase pitch derived high thermal conductivity graphite foam using a template method. Carbon, 2011, 49, 3622-3630.	10.3	68
10	Enhancing absorption dominated microwave shielding in Co@C–PVDF nanocomposites through improved magnetization and graphitization of the Co@C-nanoparticles. Physical Chemistry Chemical Physics, 2019, 21, 15595-15608.	2.8	57
11	Modulating non-linear optical absorption through controlled graphitization of carbon nanostructures containing Fe3C-graphite core-shell nanoparticles. Carbon, 2019, 153, 545-556.	10.3	55
12	Effect of Microstructure and Magnetic Properties of Ba-Pb-Hexaferrite Particles on EMI Shielding Behavior of Ba-Pb-Hexaferrite-Polyaniline-Wax Nanocomposites. Journal of Electronic Materials, 2020, 49, 1618-1629.	2.2	54
13	Three-dimensional and highly ordered porous carbon–MnO <sub>2</sub> composite foam for excellent electromagnetic interference shielding efficiency. RSC Advances, 2016, 6, 100713-100722.	3.6	53
14	Nickel nanoparticles embedded in carbon foam for improving electromagnetic shielding effectiveness. Applied Nanoscience (Switzerland), 2015, 5, 553-561.	3.1	52
15	Lightweight open cell aluminum foam for superior mechanical and electromagnetic interference shielding properties. Materials Chemistry and Physics, 2020, 240, 122274.	4.0	50
16	Nitrogen doping as a fundamental way to enhance the EMI shielding behavior of cobalt particle-embedded carbonaceous nanostructures. New Journal of Chemistry, 2019, 43, 5568-5580.	2.8	49
17	Ni Nanoparticles Coated with Nitrogen-Doped Carbon for Optical Limiting Applications. ACS Applied Nano Materials, 2020, 3, 8618-8631.	5.0	49
18	Mechanistic Insight into the Critical Concentration of Barium Hexaferrite and the Conductive Polymeric Phase with Respect to Synergistically Electromagnetic Interference (EMI) Shielding. ChemistrySelect, 2017, 2, 830-841.	1.5	47

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19	Synthesis of coral-shaped yttrium-aluminium-iron garnets by solution-combustion method. Ceramics International, 2018, 44, 3024-3031.	4.8	47
20	Graphene Oxide Coatings on Amino Acid Modified Fe Surfaces for Corrosion Inhibition. ACS Applied Nano Materials, 2020, 3, 3540-3557.	5.0	47
21	Effect of Coralâ€Shaped Yttrium Iron Garnet Particles on the EMI Shielding Behaviour of Yttrium Iron Garnetâ€Polyanilineâ€Wax Composites. ChemistrySelect, 2018, 3, 2120-2130.	1.5	46
22	Non-centrosymmetric zinc silicate-graphene based transparent flexible piezoelectric nanogenerator. Nano Energy, 2020, 73, 104821.	16.0	44
23	Structural, optical and Mössbauer spectroscopic investigations on the environment of Fe in Fe-doped ZnO (Zn1-xFexO) ceramics synthesized by solution combustion method. Ceramics International, 2019, 45, 24625-24634.	4.8	43
24	Role of oxygen functionalities of GO in corrosion protection of metallic Fe. Carbon, 2021, 173, 350-363.	10.3	43
25	Role of pyrolysis reaction temperature and heating-rate in the growth and morphology of carbon nanostructures. Nano Structures Nano Objects, 2017, 12, 229-238.	3.5	40
26	Investigation of structural, morphological and NTCR behaviour of Cu-doped ZnO nanoceramics synthesized by high energy ball milling. Materials Chemistry and Physics, 2019, 221, 419-429.	4.0	39
27	A nickel oxide-decorated <i>in situ</i> grown 3-D graphitic forest engrained carbon foam electrode for microbial fuel cells. Chemical Communications, 2021, 57, 879-882.	4.1	39
28	One-step pyrolytic synthesis and growth mechanism of coreâ€"shell type Fe/Fe <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml11" display="inline" overflow="scroll" altimg="si11.gif"&gt;<mml:msub><mml:mrow /&gt;<mml:mrow></mml:mrow></mml:mrow </mml:msub>C-graphite</mml:math 	3.5	37
29	nanoparticles-embedded carbon globules. Nano Structures Nano Objects, 2018, 16, 77-85. Mechanistic insights into the optical limiting performance of carbonaceous nanomaterials embedded with core–shell type graphite encapsulated Co nanoparticles. Physical Chemistry Chemical Physics, 2020, 22, 27224-27240.	2.8	35
30	Effect of solvents on the structure and magnetic properties of pyrolysis derived carbon globules embedded with iron/iron carbide nanoparticles and their applications in magnetorheological fluids. Nano Structures Nano Objects, 2018, 16, 167-173.	3.5	31
31	Structural and magnetic properties of Al-doped yttrium iron garnet ceramics: 57Fe internal field NMR and Mössbauer spectroscopy study. Journal of Alloys and Compounds, 2019, 773, 612-622.	5.5	31
32	Mesocarbon microsphere composites with Fe <sub>3</sub> O <sub>4</sub> nanoparticles for outstanding electromagnetic interference shielding effectiveness. RSC Advances, 2015, 5, 43279-43289.	3.6	29
33	Microstructure and compressive deformation behavior of SS foam made through evaporation of urea as space holder. Materials Chemistry and Physics, 2019, 223, 737-744.	4.0	29
34	Carbon nanotubes or carbon globules: Optimization of the pyrolytic synthesis parameters and study of the magnetic properties. Nano Structures Nano Objects, 2018, 14, 131-137.	3.5	26
35	Novel 3D lightweight carbon foam as an effective adsorbent for arsenic( <scp>v</scp> ) removal from contaminated water. RSC Advances, 2016, 6, 29899-29908.	3.6	25
36	Thermal conductivity and fire-retardant response in graphite foam made from coal tar pitch derived semi coke. Composites Part B: Engineering, 2019, 172, 121-130.	12.0	24

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37	Effect of SWCNTs content and relative density on the energy absorption capabilities of closed-cell Al-cenosphere-SWCNTs hybrid foam. Composites Part B: Engineering, 2019, 176, 107304.	12.0	23
38	Improved sensing behaviour of self-healable solar light photodetector based on core-shell type Ni0.2Zn0.8Fe2O4@ poly (Urea-Formaldehyde). Solar Energy, 2019, 188, 278-290.	6.1	23
39	Scalable development of a multi-phase thermal management system with superior EMI shielding properties. Composites Part B: Engineering, 2019, 158, 206-217.	12.0	23
40	Steady-shear response of magnetorheological fluid containing coral-shaped yttrium-iron-garnet particles. Materials Research Bulletin, 2019, 113, 45-50.	5.2	22
41	Phenol formaldehyde resin derived carbon-MCMB composite foams for electromagnetic interference shielding and thermal management applications. Composites Communications, 2020, 22, 100433.	6.3	22
42	Role of iron in the enhanced reactivity of pulverized Red mud: Analysis by Mössbauer spectroscopy and FTIR spectroscopy. Case Studies in Construction Materials, 2019, 11, e00266.	1.7	21
43	The role of ferrocene on the enhancement of the mechanical and electrochemical properties of coal tar pitch-based carbon foams. Journal of Materials Science, 2013, 48, 7071-7080.	3.7	20
44	Multi-component framework derived SiC composite paper to support efficient thermal transport and high EMI shielding performance. Composites Part B: Engineering, 2019, 176, 107123.	12.0	20
45	Microstructure, mechanical and EMI shielding performance in open cell austenitic stainless steel foam made through PU foam template. Materials Chemistry and Physics, 2020, 241, 122273.	4.0	20
46	Nanoparticles-decorated coal tar pitch-based carbon foam with enhanced electromagnetic radiation absorption capability. RSC Advances, 2015, 5, 20256-20264.	3.6	19
47	XRD, internal field-NMR and Mössbauer spectroscopy study of composition, structure and magnetic properties of iron oxide phases in iron ores. Journal of Materials Research and Technology, 2019, 8, 2192-2200.	5.8	19
48	Synthesis and characterization of 316L stainless steel foam made through two different removal process of space holder method. Manufacturing Letters, 2020, 26, 33-36.	2.2	19
49	Role of graphitization-controlled conductivity in enhancing absorption dominated EMI shielding behavior of pyrolysis-derived Fe3C@C-PVDF nanocomposites. Materials Chemistry and Physics, 2021, 263, 124429.	4.0	18
50	Lightweight carbon-red mud hybrid foam toward fire-resistant and efficient shield against electromagnetic interference. Scientific Reports, 2020, 10, 9913.	3.3	15
51	Effect of Cr Doping on Structural, Optical and Dielectric Properties of ZnO Nanoceramics Synthesized by Mechanical Alloying. Electronic Materials Letters, 2020, 16, 255-263.	2.2	15
52	Enhanced electromagnetic interference shielding properties of phenolic resin derived lightweight carbon foam decorated with electrospun zinc oxide nanofibers. Materials Today Communications, 2022, 30, 103055.	1.9	15
53	Development of pitch-based carbon–copper composites. Journal of Materials Science, 2010, 45, 1393-1400.	3.7	14
54	Investigation on pitch derived mesocarbon spheres based metal composites for highly efficient electromagnetic interference shielding. Composites Part B: Engineering, 2019, 175, 107168.	12.0	14

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55	Excited state intramolecular proton transfer emission in bent core liquid crystals. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 358, 186-191.	3.9	13
56	Effect of Al addition and space holder content on microstructure and mechanical properties of Ti2Co alloys foams for bone scaffold application. Materials Science and Engineering C, 2020, 109, 110600.	7.3	13
57	Effect of compressive strain rate on the deformation behaviour of austenitic stainless steel foam produced by space holder technique. Materials Chemistry and Physics, 2021, 259, 124010.	4.0	12
58	Nanostructuring effect of multi-walled carbon nanotubes on electrochemical properties of carbon foam as constructive electrode for lead acid battery. Applied Nanoscience (Switzerland), 2015, 5, 53-61.	3.1	11
59	Three dimension phenolic resin derived carbon-CNTs hybrid foam for fire retardant and effective electromagnetic interference shielding. Composites Part C: Open Access, 2020, 2, 100020.	3.2	11
60	Iron/Iron Carbide (Fe/Fe <sub>3</sub> C) Encapsulated in S, N Codoped Graphitic Carbon as a Robust HER Electrocatalyst. Energy & Fuels, 2021, 35, 16046-16053.	5.1	11
61	Superiority of graphite coated metallic-nanoparticles over graphite coated insulating-nanoparticles for enhancing EMI shielding. New Journal of Chemistry, 2021, 45, 4592-4600.	2.8	9
62	Strengthening of semicoke based carbon composites through multi-wall carbon nanotubes. Applied Nanoscience (Switzerland), 2014, 4, 601-611.	3.1	8
63	Influence of coal tar pitch coating on the properties of micro and nano SiC incorporated carbon–ceramic composites. Journal of Materials Science, 2009, 44, 4633-4638.	3.7	6
64	Microstructure and high temperature compressive deformation in lightweight open cell titanium foam. Manufacturing Letters, 2021, 27, 67-71.	2.2	6
65	Thermal insulating and fire-retardant lightweight carbon-slag composite foams towards absorption dominated electromagnetic interference shielding. Sustainable Materials and Technologies, 2022, 33, e00453.	3.3	5
66	Compressive Deformation Behavior of Open-Cell Cu-Zn-Al Alloy Foam Made Through P/M Route Using Mechanically Alloyed Powder. Journal of Materials Engineering and Performance, 2018, 27, 1450-1465.	2.5	2
67	Structural variation study of cobalt nanoparticles synthesized by co-precipitation method using 59Co NMR. AIP Conference Proceedings, 2018, , .	0.4	1
68	Partially open cell Ti-6Al-2Co ternary alloy foams with a range of size and volume fraction of spacer particle. Materials Letters, 2021, 290, 129463.	2.6	1