Ahmed Hashim

List of Publications by Year
in descending order

112	3,530	81743	205818
papers	citations	39	48
		h-index	g-index

120	120	120	466
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design and Tailoring the Optical and Electronic Characteristics of PS/ZnS/SiBr4 New Structures For Electronics Nanodevices. Silicon, 2023, 15, 83-91.	1.8	11
2	Controlling the Structural and Dielectric Characteristics of PS-PC/Co2O3-SiC Hybrid Nanocomposites for Nanoelectronics Applications. Silicon, 2023, 15, 251-261.	1.8	26
3	Design of Polymer/Lithium Fluoride New Structure for Renewable and Electronics Applications. Transactions on Electrical and Electronic Materials, 2022, 23, 237-246.	1.0	28
4	Tuning the Characteristics of Novel (PVA-Li-Si3N4) Structures for Renewable and Electronics Fields. Silicon, 2022, 14, 4079-4086.	1.8	24
5	Augmented structural and optical characteristics of SnO2/MnO2-doped PEO/PVP blend for photodegradation against organic pollutants. Polymer Bulletin, 2022, 79, 5219-5234.	1.7	6
6	Exploring the Characteristics of New Structure Based on Silicon Doped Organic Blend for Photonics and Electronics Applications. Silicon, 2022, 14, 4907-4914.	1.8	28
7	Effect of Silicon Carbide Nanoparticles Addition on Structural and Dielectric Characteristics of PVA/CuO Nanostructures for Electronics Devices. Silicon, 2022, 14, 4699-4705.	1.8	54
8	Design and Tailoring the Optical and Electronic Characteristics of Silicon Doped PS/SnS2 New Composites for Nano-Semiconductors Devices. Silicon, 2022, 14, 6637-6643.	1.8	27
9	Exploring the Design, Optical and Electronic Characteristics of Silicon Doped (PS-B) New Structures for Electronics and Renewable Approaches. Silicon, 2022, 14, 7025-7032.	1.8	23
10	Fabrication and Tailored Optical Characteristics of CeO2/SiO2 Nanostructures Doped PMMA for Electronics and Optics Fields. Silicon, 2022, 14, 9845-9852.	1.8	37
11	Synthesis and Enhanced Optical Characteristics of Silicon Carbide/Copper Oxide Nanostructures Doped Transparent Polymer for Optics and Photonics Nanodevices. Silicon, 2022, 14, 10037-10044.	1.8	38
12	Synthesis and Augmented Optical Properties of PC/SiC/TaC Hybrid Nanostructures for Potential and Photonics Fields. Silicon, 2022, 14, 11199-11207.	1.8	35
13	Design and exploring the structure, optical and electronic characteristics of silicon doped PS/MoS2 structures for electronics Nanodevices. Optical and Quantum Electronics, 2022, 54, .	1.5	8
14	Structure, Optical, Electronic and Chemical Characteristics of Novel (PVA-CoO) Structure Doped with Silicon Carbide. Silicon, 2021, 13, 4331-4344.	1.8	33
15	Structural, Optical and Electronic Properties of Silicon Carbide Doped PVA/NiO for Low Cost Electronics Applications. Silicon, 2021, 13, 1509-1518.	1.8	52
16	Geometry Optimization, Optical and Electronic Characteristics of Novel PVA/PEO/SiC Structure for Electronics Applications. Silicon, 2021, 13, 2639-2644.	1.8	51
17	First Principles Calculations of Electronic, Structural and Optical Properties of (PMMAâ€“ZrO2â€“Au) and (PMMAâ€“Al2O3â€“Au) Nanocomposites for Optoelectronics Applications. Transactions on Electrical and Electronic Materials, 2021, 22, 185-203.	1.0	52
18	Lightweight, Flexible and High Energies Absorption Property of PbO2 Doped Polymer Blend for Various Renewable Approaches. Transactions on Electrical and Electronic Materials, 2021, 22, 335-345.	1.0	45

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19	Synthesis of SiO2/CoFe2O4 Nanoparticles Doped CMC: Exploring the Morphology and Optical Characteristics for Photodegradation of Organic Dyes. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 2483-2491.	1.9	53
20	Synthesis and Properties of Novel (Organic Material-Inorganic Nanoparticles) System for New Pressure Sensors. Journal of Physics: Conference Series, 2021, 1818, 012119.	0.3	1
21	Investigation of Structural and Dielectric Properties of (Polymer Blend/Oxides Nanoparticles) for Pressure Sensors. Journal of Physics: Conference Series, 2021, 1818, 012187.	0.3	3
22	Low-Cost Pressure Sensors Fabricated from Novel Polymeric Nanocomposites. Journal of Physics: Conference Series, 2021, 1818, 012186.	0.3	4
23	Design of PMMA Doped with Inorganic Materials as Promising Structures for Optoelectronics Applications. Transactions on Electrical and Electronic Materials, 2021, 22, 851-868.	1.0	28
24	Fabrication of SrTiO₃ NPs Doped Polymer Blend and Studying their AC Electrical Characteristics for Piezoelectric Fields. Journal of Physics: Conference Series, 2021, 1879, 032109.	0.3	3
25	Influence of BaTiO₃ NPs on Dielectric Characteristics of PVA/PEG For Electronic Applications. Journal of Physics: Conference Series, 2021, 1879, 032110.	0.3	6
26	Improving the Optical Properties of PVA/PEG Blend Doped with BaTiO₃ NPs. Journal of Physics: Conference Series, 2021, 1963, 012005.	0.3	9
27	Enhanced Optical Characteristics and Low Energy Gap of SrTiO3 Doped Polymeric Blend for Optoelectronics Devices. Journal of Physics: Conference Series, 2021, 1963, 012004.	0.3	5
28	Enhanced morphological, optical and electronic characteristics of WC NPs doped PVP/PEO for flexible and lightweight optoelectronics applications. Optical and Quantum Electronics, 2021, 53, 1.	1.5	58
29	Tuning the optical characteristics of SiO2/MnO2 nanostructures doped organic blend for photodegradation of organic dyes. Optical and Quantum Electronics, 2021, 53, 1.	1.5	7
30	Augmented the Structure, Electronic and Optical Characteristics of PEO Doped NiO for Electronics Applications. Physics and Chemistry of Solid State, 2021, 22, 501-508.	0.3	2
31	Fabrication and characteristics of flexible, lightweight, and low-cost pressure sensors based on PVA/SiO2/SiC nanostructures. Journal of Materials Science: Materials in Electronics, 2021, 32, 2796-2804.	1.1	57
32	Exploring the characteristics of SnO2 nanoparticles doped organic blend for low cost nanoelectronics applications. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2021, 24, 472-477.	0.3	12
33	Fabrication of Lightweight and Low Cost Shields for Gamma Ray Attenuation. NeuroQuantology, 2021, 19, 158-160.	0.1	1
34	Analysis of Structural and Electronic Properties of Novel (PMMA/Al2O3, PMMA/Al2O3-Ag, PMMA/ZrO2,) Tj ETQq0 0 0 rgBT /Overlock 10 Transactions on Electrical and Electronic Materials, 2020, 21, 48-67.	1.0	61
35	Design and characteristics of novel PVA/PEG/Y2O3 structure for optoelectronics devices. Journal of Molecular Modeling, 2020, 26, 210.	0.8	48
36	Structural, Spectroscopic, Electronic and Optical Properties of Novel Platinum Doped (PMMA/ZrO2) and (PMMA/Al2O3) Nanocomposites for Electronics Devices. Transactions on Electrical and Electronic Materials, 2020, 21, 550-563.	1.0	50

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37	Structural, Optical and Electrical Properties of PVA/PEO/SnO2 New Nanocomposites for Flexible Devices. Transactions on Electrical and Electronic Materials, 2020, 21, 283-292.	1.0	64
38	Enhanced Structural, Optical, and Electronic Properties of In2O3 and Cr2O3 Nanoparticles Doped Polymer Blend for Flexible Electronics and Potential Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 3894-3906.	1.9	70
39	Fabrication of new ceramics nanocomposites for solar energy storage and release. Bulletin of Electrical Engineering and Informatics, 2020, 9, 83-86.	0.6	19
40	Determination of Optical Parameters of Films of PVA/TiO2/SiC and PVA/MgO/SiC Nanocomposites for Optoelectronics and UV-Detectors. Ukrainian Journal of Physics, 2020, 65, 533.	0.1	63
41	Fabrication of Novel (PMMA-Al2O3/Ag) Nanocomposites and its Structural and Optical Properties for Lightweight and Low Cost Electronics Applications. Egyptian Journal of Chemistry, 2020, .	0.1	18
42	Lower Cost and Higher UV-Absorption of Polyvinyl Alcohol/ Silica Nanocomposites For Potential Applications. Egyptian Journal of Chemistry, 2020, 63, 461-470.	0.1	54
43	Effect of Antimony Oxide Nanoparticles on Structural, Optical and AC Electrical Properties of (PEO-PVA) Blend for Antibacterial Applications. International Journal of Emerging Trends in Engineering Research, 2020, 8, 4726-4738.	0.7	4
44	Synthesis of (Polymerâ€“SnO) Nanocomposites: Structural and Optical Properties for Flexible Optoelectronics Applications. Nanosistemi, Nanomateriali, Nanotehnologii, 2020, 18, .	0.2	16
45	Analysis of some structural, electronic and optical properties of ZnnTen (n=1, 7, 11, 13) nanostructures: A DFT/TD-DFT study. AIP Conference Proceedings, 2020, , .	0.3	1
46	Structural, Electrical and Optical Properties for (Polyvinyl Alcoholâ€“Polyethylene Oxideâ€“Magnesium) Tj ETQq0 0 0 rgBT /Overlock 10 Materials, 2019, 20, 334-343.	1.0	44
47	Novel of water with (CeO₂-WC) and (SiC-WC) nanoparticles systems for energy storage and release applications. IOP Conference Series: Materials Science and Engineering, 2019, 518, 032059.	0.3	45
48	Synthesis and Characterization of Flexible Resistive Humidity Sensors Based on PVA/PEO/CuO Nanocomposites. Transactions on Electrical and Electronic Materials, 2019, 20, 530-536.	1.0	60
49	Analysis of Structural, Optical and Electronic Properties of Polymeric Nanocomposites/Silicon Carbide for Humidity Sensors. Transactions on Electrical and Electronic Materials, 2019, 20, 206-217.	1.0	50
50	Fabrication of novel (carboxy methyl celluloseâ€“polyvinylpyrrolidoneâ€“polyvinyl alcohol)/lead oxide nanoparticles: structural and optical properties for gamma rays shielding applications. International Journal of Plastics Technology, 2019, 23, 39-45.	2.9	60
51	Structural, Optical and Electronic Properties of Novel (PVAâ€“MgO)/SiC Nanocomposites Films for Humidity Sensors. Transactions on Electrical and Electronic Materials, 2019, 20, 218-232.	1.0	59
52	Synthesis and Characterization of Polymer Blend-CoFe2O4 Nanoparticles as a Humidity Sensors for Different Temperatures. Transactions on Electrical and Electronic Materials, 2019, 20, 107-112.	1.0	43
53	Fabrication and studying the dielectric properties of (polystyrene-copper oxide) nanocomposites for piezoelectric application. Bulletin of Electrical Engineering and Informatics, 2019, 8, 52-57.	0.6	25
54	Novel Studies on Spectroscopic, Optical and Electronic Properties of (PVA-TiO₂/SiC) Nanocomposites for Biological and Optoelectronics Applications. Advanced Science, Engineering and Medicine, 2019, 11, 554-564.	0.3	2

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55	Fabrication of Novel (Biopolymer Blend-Lead Oxide Nanoparticles) Nanocomposites: Structural and Optical Properties for Low-Cost Nuclear Radiation Shielding. Ukrainian Journal of Physics, 2019, 64, 157.	0.1	50
56	Fabrication, Structural and Optical properties for (Polyvinyl Alcoholâ€“Polyethylene Oxideâ€“ Iron) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.1	22
57	Fabrication and Characterization of (PVA-TiO2)1-x/ SiCx Nanocomposites for Biomedical Applications. Egyptian Journal of Chemistry, 2019, .	0.1	50
58	Fabrication of PVA/NiO/SiC Nanocomposites and Studying their Dielectric Properties For Antibacterial Applications. Egyptian Journal of Chemistry, 2019, .	0.1	37
59	Fabrication of (PS-Cr2O3/ ZnCoFe2O4) Nanocomposites and Studying their Dielectric and Fluorescence Properties for IR Sensors. Egyptian Journal of Chemistry, 2019, .	0.1	25
60	Structural, A.C electrical and Optical properties of (Polyvinyl alcoholâ€“Polyethylene Oxideâ€“Aluminum) Tj ETQq0 0 0 rgBT /Overlock 1	0.1	28
61	Structural, Dielectric and Optical properties for (Polyvinyl Alcoholâ€“Polyethylene Oxide- Manganese) Tj ETQq1 1 0.784314 rgBT /Ove	0.1	28
62	Analysis of Structural, Electrical and Electronic Properties of (Polymer Nanocomposites/ Silicon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	0.1	39
63	Analysis of Optical, Electronic and Spectroscopic properties of (Biopolymer-SiC) Nanocomposites For Electronics Applications. Egyptian Journal of Chemistry, 2019, .	0.1	46
64	Novel (PMMA-ZrO2-Ag) Nanocomposites: Structural, Electronic, Optical Properties as Antibacterial for Dental Industries. International Journal of Emerging Trends in Engineering Research, 2019, 7, 68-84.	0.7	17
65	Structural, Electronic, Optical Properties and Antibacterial Application of Novel (PMMA-Al2O3-Ag) Nanocomposites for Dental Industries Applications. International Journal of Emerging Trends in Engineering Research, 2019, 7, 104-122.	0.7	16
66	Calculating Characteristic Impedance Without Using Symmetricity of Rectangular Coaxial Line. International Journal of Emerging Trends in Engineering Research, 2019, 7, 131-144.	0.7	20
67	Novel of Piezoelectric Application for Cement Mortar/CMC-PVP-ZrO₂ Nanocomposites. Advanced Science, Engineering and Medicine, 2019, 11, 415-418.	0.3	1
68	Synthesis and Characterization of Novel Cement/Polyvinyl Pyrrolidone-Carboxymethyl Cellulose-Y₂O₃ Nanocomposites for Piezoelectric Application. Advanced Science, Engineering and Medicine, 2019, 11, 419-422.	0.3	1
69	Structural, Optical and Dielectric Properties of (PS- In2O3/ ZnCoFe2O4) Nanocomposites. Egyptian Journal of Chemistry, 2019, .	0.1	29
70	Structural and Optical Properties of Novel (PS-Cr2O3/ ZnCoFe2O4) Nanocomposites For UV and Microwave Shielding. Egyptian Journal of Chemistry, 2019, .	0.1	23
71	Novel of (polymer blend-Fe3O4) magnetic nanocomposites: preparation and characterization for thermal energy storage and release, gamma ray shielding, antibacterial activity and humidity sensors applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 10369-10394.	1.1	58
72	Synthesis of Novel (Polymer Blend-Ceramics) Nanocomposites: Structural, Optical and Electrical Properties for Humidity Sensors. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1394-1401.	1.9	61

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73	Structural, electrical and optical properties of (biopolymer blend/titanium carbide) nanocomposites for low cost humidity sensors. Journal of Materials Science: Materials in Electronics, 2018, 29, 11598-11604.	1.1	62
74	Synthesis of New Nanocomposites: Carboxy Methyl Celluloseâ€“Polyvinylpyrrolidoneâ€“Polyvinyl Alcohol/Lead Oxide Nanoparticles: Structural and Electrical Properties as Gamma Ray Sensor for Bioenvironmental Applications. Journal of Bionanoscience, 2018, 12, 200-205.	0.4	28
75	Novel of Biodegradable Polymers-Inorganic Nanoparticles: Structural, Optical and Electrical Properties as Humidity Sensors and Gamma Radiation Shielding for Biological Applications. Journal of Bionanoscience, 2018, 12, 170-176.	0.4	37
76	Fabrication of (Polymer Blend-magnesium Oxide) Nanoparticle and Studying their Optical Properties for Optoelectronic Applications. Bulletin of Electrical Engineering and Informatics, 2018, 7, 28-34.	0.6	41
77	Synthesis of (Poly-methyl Methacrylate-lead Oxide) Nanocomposites and Studying their A.C Electrical Properties for Piezoelectric Applications. Bulletin of Electrical Engineering and Informatics, 2018, 7, 547-551.	0.6	17
78	Structural and Optical Properties of (Polystyreneâ€“Copper Oxide) Nanocomposites for Biological Applications. Journal of Bionanoscience, 2018, 12, 341-345.	0.4	40
79	Preparation and Studying the Structural and Optical Properties of (Poly-Methyl Methacrylateâ€“Lead) Tj ETQq1 1 0.784314 rgBT /Ove 346-349.	0.4	39
80	Synthesis and Characterization of Novel (Organicâ€“Inorganic) Nanofluids for Antibacterial, Antifungal and Heat Transfer Applications. Journal of Bionanoscience, 2018, 12, 336-340.	0.4	43
81	Novel of (Niobium Carbide-Biopolymer Blend) Nanocomposites: Characterization for Bioenvironmental Applications. Journal of Bionanoscience, 2018, 12, 488-493.	0.4	42
82	Synthesis, Characterization and Nanobiological Application of (Biodegradable Polymers-Titanium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	35
83	Structural and Optical Properties of (Biopolymer Blend-Metal Oxide) Bionanocomposites for Humidity Sensors. Journal of Bionanoscience, 2018, 12, 660-663.	0.4	12
84	Modern Developments in Polymer Nanocomposites For Antibacterial and Antimicrobial Applications: A Review. Journal of Bionanoscience, 2018, 12, 608-613.	0.4	37
85	Fabrication and Properties of Biopolymer-Ceramics Nanocomposites as UV-Shielding for Bionanoscience Application. Journal of Bionanoscience, 2018, 12, 788-791.	0.4	38
86	Novel Pressure Sensors Made from Nanocomposites (Biodegradable Polymersâ€“Metal Oxide) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	0.1	59
87	Antifungal and Antibacterial of Novel Cement Mortar/CMC-PVP-ZrO₂ Nanocomposites. Journal of Bionanoscience, 2018, 12, 814-816.	0.4	1
88	sensors. International Journal of Plastics Technology, 2017, 21, 397-403.	2.9	43
89	Synthesis of (PVAâ€“PEGâ€“PVPâ€“ZrO2) nanocomposites for energy release and gamma shielding applications. International Journal of Plastics Technology, 2017, 21, 444-453.	2.9	41
90	Synthesis of Novel Polyvinyl Alcoholâ€“Starch-Copper Oxide Nanocomposites for Humidity Sensors Applications with Different Temperatures. Sensor Letters, 2017, 15, 758-761.	0.4	38

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91	Effect of Zirconium Oxide Nanoparticles on Dielectric Properties of (PVA-PEG-PVP) Blend for Medical Application. Journal of Advanced Physics, 2017, 6, 187-190.	0.4	35
92	Fabrication of (PVA-PAA) Blend-Extracts of Plants Bio-Composites and Studying Their Structural, Electrical and Optical Properties for Humidity Sensors Applications. Sensor Letters, 2017, 15, 589-596.	0.4	35
93	Fabrication of New Nanocomposites: CMC-PAA-PbO₂ Nanoparticles for Piezoelectric Sensors and Gamma Radiation Shielding Applications. Sensor Letters, 2017, 15, 785-790.	0.4	26
94	Novel of (Niobium Carbide/Polymer Blend) Nanocomposites: Fabrication and Characterization for Pressure Sensors. Sensor Letters, 2017, 15, 951-953.	0.4	44
95	Synthesis and Characterization of (MgOâ€“Y₂O₃â€“CuO) Nanocomposites for Novel Humidity Sensor Application. Sensor Letters, 2017, 15, 858-861.	0.4	38
96	A Novel Piezoelectric Materials Prepared from (Carboxymethyl Cellulose-Starch) Blend-Metal Oxide Nanocomposites. Sensor Letters, 2017, 15, 1019-1022.	0.4	54
97	Novel of (PVA-ST-PbO₂) Bio Nanocomposites: Preparation and Properties for Humidity Sensors and Radiation Shielding Applications. Sensor Letters, 2017, 15, 1003-1009.	0.4	19
98	Fabrication of Novel (PVA-PEG-CMC-Fe₃O₄) Magnetic Nanocomposites for Piezoelectric Applications. Sensor Letters, 2017, 15, 998-1002.	0.4	20
99	Novel Lead Oxide Polymer Nanocomposites for Nuclear Radiation Shielding Applications. Ukrainian Journal of Physics, 2017, 62, 978-983.	0.1	51
100	Development of a New Humidity Sensor Based on (Carboxymethyl Celluloseâ€“Starch) Blend with Copper Oxide Nanoparticles. Ukrainian Journal of Physics, 2017, 62, 1044-1049.	0.1	42
101	Synthesis and Characterization of Novel Piezoelectric and Energy Storage Nanocompo-sites: Biodegradable Materialsâ€“Magnesium Oxide Nanoparticles. Ukrainian Journal of Physics, 2017, 62, 1050-1056.	0.1	40
102	Novel High Gamma Radiation Shielding Nanocomposites of Polyvinyl Pyrrolidone-Carboxymethyl Cellulose Blend Dispersed with ZnO Nanoparticles for Radiation Sensor. Sensor Letters, 2017, 15, 982-986.	0.4	2
103	Preparation of (polyvinyl alcoholâ€“polyethylene glycolâ€“polyvinyl pyrrolidinoneâ€“titanium oxide) Tj ETQq1 1 0.784314 rgBT /Overlo Journal of Plastics Technology, 2016, 20, 121-127.	2.9	45
104	Synthesis of (PVA-PEG-PVP-TiO₂) Nanocomposites for Antibacterial Application. Materials Focus, 2016, 5, 436-439.	0.4	34
105	Reduce Evaporation Losses from Water Reservoirs. IOSR Journal of Applied Physics, 2013, 4, 13-16.	0.1	5
106	Preparation and Characterization of (PMMA-Berry Paper or Plan Leaves) Composites. Indonesian Journal of Electrical Engineering and Informatics, 2013, 1, .	0.3	0
107	The Effect of Vertical and Horizontal Exposure of Beta-Radiation and Magnetic Field on Ni-Cr Alloy Properties. Journal of Engineering and Applied Sciences, 2012, 7, 353-355.	0.2	2
108	The D.C Electrical Properties of (PVC-Al2O3) Composites. AIP Conference Proceedings, 2011, , .	0.3	39

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109	Novel of thermal energy storage and release: water/(SnO₂-TaC) and water/(SnO₂â€“SiC) nanofluids for environmental applications. IOP Conference Series: Materials Science and Engineering, 0, 454, 012113.	0.3	47
110	Enhanced UV Absorption and Low Energy Gap of Polymer Doped ZrO₂- SiC NPs. Materials Science Forum, 0, 1039, 357-362.	0.3	0
111	Recent Review on Poly-methyl methacrylate (PMMA)- Polystyrene (PS) Blend Doped with Nanoparticles For Modern Applications. Research Journal of Agriculture and Biological Sciences, 0, , .	0.0	7
112	Exploring the Design and Spectroscopic Characteristics of PVA/Si3N4/SiBr4 New Structures for Electronics and Optics Devices. Silicon, 0, , .	1.8	0