

Ahmed Hashim

List of Publications by Year in descending order

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112
papers

3,530
citations

81743

39
h-index

205818

48
g-index

120
all docs

120
docs citations

120
times ranked

466
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Structural, Optical, and Electronic Properties of In ₂ O ₃ and Cr ₂ O ₃ 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
2	Structural, Optical and Electrical Properties of PVA/PEO/SnO ₂ New Nanocomposites for Flexible Devices. Transactions on Electrical and Electronic Materials, 2020, 21, 283-292.	1.0	64
3	Determination of Optical Parameters of Films of PVA/TiO ₂ /SiC and PVA/MgO/SiC Nanocomposites for Optoelectronics and UV-Detectors. Ukrainian Journal of Physics, 2020, 65, 533.	0.1	63
4	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
5	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
6	Analysis of Structural and Electronic Properties of Novel (PMMA/Al ₂ O ₃ , PMMA/Al ₂ O ₃ -Ag, PMMA/ZrO ₂ ,) Tj ETQq0 0 0 rgBT /Overlock 10 Transactions on Electrical and Electronic Materials, 2020, 21, 48-67.	1.0	61
7	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
8	Fabrication of novel (carboxy methyl cellulose-“polyvinylpyrrolidone-“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
9	Structural, Optical and Electronic Properties of Novel (PVA-“MgO)/SiC Nanocomposites Films for Humidity Sensors. Transactions on Electrical and Electronic Materials, 2019, 20, 218-232.	1.0	59
10	Novel Pressure Sensors Made from Nanocomposites (Biodegradable Polymers-“Metal Oxide) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	0.1	59
11	Novel of (polymer blend-Fe ₃ O ₄) 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
12	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
13	Fabrication and characteristics of flexible, lightweight, and low-cost pressure sensors based on PVA/SiO ₂ /SiC nanostructures. Journal of Materials Science: Materials in Electronics, 2021, 32, 2796-2804.	1.1	57
14	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
15	A Novel Piezoelectric Materials Prepared from (Carboxymethyl Cellulose-Starch) Blend-Metal Oxide Nanocomposites. Sensor Letters, 2017, 15, 1019-1022.	0.4	54
16	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
17	Synthesis of SiO ₂ /CoFe ₂ O ₄ 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
18	Structural, Optical and Electronic Properties of Silicon Carbide Doped PVA/NiO for Low Cost Electronics Applications. Silicon, 2021, 13, 1509-1518.	1.8	52

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19	First Principles Calculations of Electronic, Structural and Optical Properties of (PMMA@ZrO ₂ @Au) and (PMMA@Al ₂ O ₃ @Au) Nanocomposites for Optoelectronics Applications. Transactions on Electrical and Electronic Materials, 2021, 22, 185-203.	1.0	52
20	Geometry Optimization, Optical and Electronic Characteristics of Novel PVA/PEO/SiC Structure for Electronics Applications. Silicon, 2021, 13, 2639-2644.	1.8	51
21	Novel Lead Oxide Polymer Nanocomposites for Nuclear Radiation Shielding Applications. Ukrainian Journal of Physics, 2017, 62, 978-983.	0.1	51
22	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
23	Structural, Spectroscopic, Electronic and Optical Properties of Novel Platinum Doped (PMMA/ZrO ₂) and (PMMA/Al ₂ O ₃) Nanocomposites for Electronics Devices. Transactions on Electrical and Electronic Materials, 2020, 21, 550-563.	1.0	50
24	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
25	Fabrication and Characterization of (PVA-TiO ₂) _{1-x} /SiC _x Nanocomposites for Biomedical Applications. Egyptian Journal of Chemistry, 2019, .	0.1	50
26	Design and characteristics of novel PVA/PEG/Y ₂ O ₃ structure for optoelectronics devices. Journal of Molecular Modeling, 2020, 26, 210.	0.8	48
27	Novel of thermal energy storage and release: water/(SnO ₂ -TaC) and water/(SnO ₂ @SiC) nanofluids for environmental applications. IOP Conference Series: Materials Science and Engineering, 0, 454, 012113.	0.3	47
28	Analysis of Optical, Electronic and Spectroscopic properties of (Biopolymer-SiC) Nanocomposites For Electronics Applications. Egyptian Journal of Chemistry, 2019, .	0.1	46
29	Preparation of (polyvinyl alcohol@polyethylene glycol@polyvinyl pyrrolidinone@titanium oxide) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Journal of Plastics Technology, 2016, 20, 121-127.	2.9	45
30	Novel of water with (CeO ₂ -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
31	Lightweight, Flexible and High Energies Absorption Property of PbO ₂ Doped Polymer Blend for Various Renewable Approaches. Transactions on Electrical and Electronic Materials, 2021, 22, 335-345.	1.0	45
32	Structural, Electrical and Optical Properties for (Polyvinyl Alcohol@Polyethylene Oxide@Magnesium) Tj ETQq0 0 0 rgBT /Overlock 10 Materials, 2019, 20, 334-343.	1.0	44
33	Novel of (Niobium Carbide/Polymer Blend) Nanocomposites: Fabrication and Characterization for Pressure Sensors. Sensor Letters, 2017, 15, 951-953.	0.4	44
34	sensors. International Journal of Plastics Technology, 2017, 21, 397-403.	2.9	43
35	Synthesis and Characterization of Polymer Blend-CoFe ₂ O ₄ Nanoparticles as a Humidity Sensors for Different Temperatures. Transactions on Electrical and Electronic Materials, 2019, 20, 107-112.	1.0	43
36	Synthesis and Characterization of Novel (Organic@Inorganic) Nanofluids for Antibacterial, Antifungal and Heat Transfer Applications. Journal of Bionanoscience, 2018, 12, 336-340.	0.4	43

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37	Novel of (Niobium Carbide-Biopolymer Blend) Nanocomposites: Characterization for Bioenvironmental Applications. Journal of Bionanoscience, 2018, 12, 488-493.	0.4	42
38	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
39	Synthesis of (PVAâ€“PEGâ€“PVPâ€“ZrO ₂) nanocomposites for energy release and gamma shielding applications. International Journal of Plastics Technology, 2017, 21, 444-453.	2.9	41
40	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
41	Structural and Optical Properties of (Polystyreneâ€“Copper Oxide) Nanocomposites for Biological Applications. Journal of Bionanoscience, 2018, 12, 341-345.	0.4	40
42	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
43	The D.C Electrical Properties of (PVC-Al ₂ O ₃) Composites. AIP Conference Proceedings, 2011, , .	0.3	39
44	Preparation and Studying the Structural and Optical Properties of (Poly-Methyl Methacrylateâ€“Lead) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 346-349.	0.4	39
45	Analysis of Structural, Electrical and Electronic Properties of (Polymer Nanocomposites/ Silicon) Tj ETQq1 1 0.784314 rgBT /Overlock 1 39	0.1	39
46	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
47	Fabrication and Properties of Biopolymer-Ceramics Nanocomposites as UV-Shielding for Bionanoscience Application. Journal of Bionanoscience, 2018, 12, 788-791.	0.4	38
48	Synthesis and Characterization of (MgOâ€“Y ₂ O ₃ â€“CuO) Nanocomposites for Novel Humidity Sensor Application. Sensor Letters, 2017, 15, 858-861.	0.4	38
49	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
50	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
51	Modern Developments in Polymer Nanocomposites For Antibacterial and Antimicrobial Applications: A Review. Journal of Bionanoscience, 2018, 12, 608-613.	0.4	37
52	Fabrication of PVA/NiO/SiC Nanocomposites and Studying their Dielectric Properties For Antibacterial Applications. Egyptian Journal of Chemistry, 2019, .	0.1	37
53	Fabrication and Tailored Optical Characteristics of CeO ₂ /SiO ₂ Nanostructures Doped PMMA for Electronics and Optics Fields. Silicon, 2022, 14, 9845-9852.	1.8	37
54	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

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55	Synthesis, Characterization and Nanobiological Application of (Biodegradable Polymers-Titanium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.4	35
56	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
57	Synthesis and Augmented Optical Properties of PC/SiC/TaC Hybrid Nanostructures for Potential and Photonics Fields. Silicon, 2022, 14, 11199-11207.	1.8	35
58	Synthesis of (PVA-PEG-PVP-TiO ₂) Nanocomposites for Antibacterial Application. Materials Focus, 2016, 5, 436-439.	0.4	34
59	Structure, Optical, Electronic and Chemical Characteristics of Novel (PVA-CoO) Structure Doped with Silicon Carbide. Silicon, 2021, 13, 4331-4344.	1.8	33
60	Structural, Optical and Dielectric Properties of (PS- In2O3/ ZnCoFe2O4) Nanocomposites. Egyptian Journal of Chemistry, 2019, .	0.1	29
61	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
62	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
63	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
64	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
65	Structural, A.C electrical and Optical properties of (Polyvinyl alcoholâ€“Polyethylene Oxideâ€“Aluminum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.1	28
66	Structural, Dielectric and Optical properties for (Polyvinyl Alcoholâ€“Polyethylene Oxide- Manganese) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.1	28
67	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
68	Fabrication of New Nanocomposites: CMC-PAA-PbO ₂ Nanoparticles for Piezoelectric Sensors and Gamma Radiation Shielding Applications. Sensor Letters, 2017, 15, 785-790.	0.4	26
69	Controlling the Structural and Dielectric Characteristics of PS-PC/Co2O3-SiC Hybrid Nanocomposites for Nanoelectronics Applications. Silicon, 2023, 15, 251-261.	1.8	26
70	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
71	Fabrication of (PS-Cr2O3/ ZnCoFe2O4) Nanocomposites and Studying their Dielectric and Fluorescence Properties for IR Sensors. Egyptian Journal of Chemistry, 2019, .	0.1	25
72	Tuning the Characteristics of Novel (PVA-Li-Si3N4) Structures for Renewable and Electronics Fields. Silicon, 2022, 14, 4079-4086.	1.8	24

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73	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
74	Structural and Optical Properties of Novel (PS-Cr ₂ O ₃ / ZnCoFe ₂ O ₄) Nanocomposites For UV and Microwave Shielding. Egyptian Journal of Chemistry, 2019, .	0.1	23
75	Fabrication, Structural and Optical properties for (Polyvinyl Alcoholâ€“Polyethylene Oxideâ€“ Iron) Tj ETQq1 1 0.784314 rgBT /Overlo 0.1 22	0.1	22
76	Fabrication of Novel (PVA-PEG-CMC-Fe ₃ O ₄) Magnetic Nanocomposites for Piezoelectric Applications. Sensor Letters, 2017, 15, 998-1002.	0.4	20
77	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
78	Fabrication of new ceramics nanocomposites for solar energy storage and release. Bulletin of Electrical Engineering and Informatics, 2020, 9, 83-86.	0.6	19
79	Novel of (PVA-ST-PbO ₂) Bio Nanocomposites: Preparation and Properties for Humidity Sensors and Radiation Shielding Applications. Sensor Letters, 2017, 15, 1003-1009.	0.4	19
80	Fabrication of Novel (PMMA-Al ₂ O ₃ /Ag) Nanocomposites and its Structural and Optical Properties for Lightweight and Low Cost Electronics Applications. Egyptian Journal of Chemistry, 2020, .	0.1	18
81	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
82	Novel (PMMA-ZrO ₂ -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
83	Structural, Electronic, Optical Properties and Antibacterial Application of Novel (PMMA-Al ₂ O ₃ -Ag) Nanocomposites for Dental Industries Applications. International Journal of Emerging Trends in Engineering Research, 2019, 7, 104-122.	0.7	16
84	Synthesis of (Polymerâ€“SnO) Nanocomposites: Structural and Optical Properties for Flexible Optoelectronics Applications. Nanosistemi, Nanomateriali, Nanotehnologii, 2020, 18, .	0.2	16
85	Structural and Optical Properties of (Biopolymer Blend-Metal Oxide) Bionanocomposites for Humidity Sensors. Journal of Bionanoscience, 2018, 12, 660-663.	0.4	12
86	Exploring the characteristics of SnO ₂ nanoparticles doped organic blend for low cost nanoelectronics applications. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2021, 24, 472-477.	0.3	12
87	Design and Tailoring the Optical and Electronic Characteristics of PS/ZnS/SiBr ₄ New Structures For Electronics Nanodevices. Silicon, 2023, 15, 83-91.	1.8	11
88	Improving the Optical Properties of PVA/PEG Blend Doped with BaTiO ₃ NPs. Journal of Physics: Conference Series, 2021, 1963, 012005.	0.3	9
89	Design and exploring the structure, optical and electronic characteristics of silicon doped PS/MoS ₂ structures for electronics Nanodevices. Optical and Quantum Electronics, 2022, 54, .	1.5	8
90	Tuning the optical characteristics of SiO ₂ /MnO ₂ nanostructures doped organic blend for photodegradation of organic dyes. Optical and Quantum Electronics, 2021, 53, 1.	1.5	7

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91	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
92	Influence of BaTiO ₃ NPs on Dielectric Characteristics of PVA/PEG For Electronic Applications. Journal of Physics: Conference Series, 2021, 1879, 032110.	0.3	6
93	Augmented structural and optical characteristics of SnO ₂ /MnO ₂ -doped PEO/PVP blend for photodegradation against organic pollutants. Polymer Bulletin, 2022, 79, 5219-5234.	1.7	6
94	Enhanced Optical Characteristics and Low Energy Gap of SrTiO ₃ Doped Polymeric Blend for Optoelectronics Devices. Journal of Physics: Conference Series, 2021, 1963, 012004.	0.3	5
95	Reduce Evaporation Losses from Water Reservoirs. IOSR Journal of Applied Physics, 2013, 4, 13-16.	0.1	5
96	Low-Cost Pressure Sensors Fabricated from Novel Polymeric Nanocomposites. Journal of Physics: Conference Series, 2021, 1818, 012186.	0.3	4
97	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
98	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
99	Fabrication of SrTiO ₃ NPs Doped Polymer Blend and Studying their AC Electrical Characteristics for Piezoelectric Fields. Journal of Physics: Conference Series, 2021, 1879, 032109.	0.3	3
100	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
101	Novel Studies on Spectroscopic, Optical and Electronic Properties of (PVA-TiO ₂ /SiC) Nanocomposites for Biological and Optoelectronics Applications. Advanced Science, Engineering and Medicine, 2019, 11, 554-564.	0.3	2
102	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
103	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
104	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
105	Antifungal and Antibacterial of Novel Cement Mortar/CMC-PVP-ZrO ₂ Nanocomposites. Journal of Bionanoscience, 2018, 12, 814-816.	0.4	1
106	Novel of Piezoelectric Application for Cement Mortar/CMC-PVP-ZrO ₂ Nanocomposites. Advanced Science, Engineering and Medicine, 2019, 11, 415-418.	0.3	1
107	Synthesis and Characterization of Novel Cement/Polyvinyl Pyrrolidone-Carboxymethyl Cellulose-Y ₂ O ₃ Nanocomposites for Piezoelectric Application. Advanced Science, Engineering and Medicine, 2019, 11, 419-422.	0.3	1
108	Analysis of some structural, electronic and optical properties of Zn _n Ten (n=1, 7, 11, 13) nanostructures: A DFT/TD-DFT study. AIP Conference Proceedings, 2020, , .	0.3	1

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109	Fabrication of Lightweight and Low Cost Shields for Gamma Ray Attenuation. NeuroQuantology, 2021, 19, 158-160.	0.1	1
110	Enhanced UV Absorption and Low Energy Gap of Polymer Doped ZrO ₂ - SiC NPs. Materials Science Forum, 0, 1039, 357-362.	0.3	0
111	Preparation and Characterization of (PMMA-Berry Paper or Plan Leaves) Composites. Indonesian Journal of Electrical Engineering and Informatics, 2013, 1, .	0.3	0
112	Exploring the Design and Spectroscopic Characteristics of PVA/Si ₃ N ₄ /SiBr ₄ New Structures for Electronics and Optics Devices. Silicon, 0, , .	1.8	0