

S Hussain

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5225580/publications.pdf>

Version: 2024-02-01

116
papers

1,985
citations

257101

24
h-index

315357

38
g-index

117
all docs

117
docs citations

117
times ranked

2399
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoresponse properties of thin films of vertically grown WS ₂ nanoflakes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 277, 115587.	1.7	3
2	Effect of 200 keV H ⁺ ion implantation on films of poly(vinylidene fluoride). <i>Thin Solid Films</i> , 2022, , 139302.	0.8	1
3	Impedance studies of free-standing, flexible thin films of PVDF filled with gallium nitride nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 18658-18672.	1.1	3
4	Probing the effect of CdS loading on crystallinity and morphology of free standing thin films of CdS/PVDF. <i>Materials Today: Proceedings</i> , 2021, 46, 6156-6160.	0.9	2
5	Enhancing the electroactive phases in freestanding flexible films of MoS ₂ /PVDF. <i>Polymer Crystallization</i> , 2021, 4, e10164.	0.5	6
6	Nanostructured MnCo ₂ O ₄ as a high-performance electrode for supercapacitor application. <i>Ionics</i> , 2021, 27, 325-337.	1.2	40
7	Observation of A _{1g} mode at the edges of MoS ₂ and its applications. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	1
8	Synthesis of vertically stacked, highly oriented WS ₂ thin films by Electron beam evaporation. <i>Thin Solid Films</i> , 2021, 734, 138851.	0.8	3
9	Modulating the conductivity of free-standing, flexible composite films of poly(vinylidene fluoride)/graphene. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 138918.	0.8	4
10	Enhanced photoresponse and high photo-detectivity in chemically deposited MoS ₂ thin films with inherent strain. <i>Materials Science in Semiconductor Processing</i> , 2021, 136, 106162.	1.9	2
11	Synthesis, characterization and bioactivity of thio-acetamide modified ZnO nanoparticles embedded in zinc acetate matrix. <i>Nano Express</i> , 2021, 2, 010012.	1.2	17
12	Ferromagnetic properties in CuO-nanocrystals embedded in PVDF matrix. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 495, 165903.	1.0	7
13	Nano-Ag/DLC/Cellulose Free-Standing Films Towards Anti-bacterial and Bio-compatible Futuristic Bandage Applications. <i>Journal of Polymers and the Environment</i> , 2020, 28, 284-294.	2.4	9
14	Enhancement of electroactive phases in free-standing, flexible thin films of PVDF with addition of p-block chlorides. <i>Polymer</i> , 2020, 186, 122074.	1.8	11
15	Effect of Pr doping on the optical and magnetic properties of calcium stannate perovskite nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	7
16	Enhanced Thermoelectric Performance of Novel Reaction Condition-Induced Bi ₂ S ₃ -Bi Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37248-37257.	4.0	21
17	Synthesis of preferentially oriented MoS ₂ thin films as rectifying p-n junction. <i>Materialia</i> , 2020, 11, 100688.	1.3	8
18	Robust one-step synthesis of bismuth molybdate nanocomposites: A promising negative electrode for high end ultracapacitors. <i>Solid State Sciences</i> , 2020, 106, 106303.	1.5	33

#	ARTICLE	IF	CITATIONS
19	Nonlinear optical and photocatalytic dye degradation of Co doped CeO ₂ nanostructures synthesized through a modified combustion technique. <i>Ceramics International</i> , 2020, 46, 13932-13940.	2.3	26
20	Induced ferromagnetism and enhanced optical behaviour in indium-doped barium stannate system. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 3375-3386.	1.1	6
21	INDUCING HYDROPHOBICITY IN CELLULOSE BY USING POLYVINYLIDENE DIFLUORIDE (PVDF) TO PRODUCE FREESTANDING CELLULOSE/PVDF COMPOSITE FILMS. <i>Cellulose Chemistry and Technology</i> , 2020, 54, 777-787.	0.5	4
22	A new insight into corrosion inhibition mechanism of copper in aerated 3.5 wt.% NaCl solution by eco-friendly Imidazopyrimidine Dye: experimental and theoretical approach. <i>Chemical Engineering Journal</i> , 2019, 358, 725-742.	6.6	237
23	Ag-NanoInclusion-Induced Enhanced Thermoelectric Properties of Ag ₂ S. <i>ACS Applied Energy Materials</i> , 2019, 2, 6383-6394.	2.5	39
24	Enhancement of $\hat{\Gamma}^2$ phase in PVDF thin films with metal doping. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
25	Magnetic properties of nanocrystalline nickel incorporated CuO thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 479, 59-66.	1.0	34
26	Surface-enhanced Raman scattering and quantum chemical studies of 2-trifluoroacetylpyrrole chemisorbed on colloidal silver and gold nanoparticles: A comparative study. <i>Journal of Molecular Liquids</i> , 2019, 290, 111209.	2.3	30
27	Tunable degree of oxidation in graphene oxide: cost effective synthesis, characterization and process optimization. <i>Materials Research Express</i> , 2019, 6, 085625.	0.8	7
28	Effect of different surfactants on thermoelectric properties of CuS nanoparticles. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	7
29	Synthesis and characterisation of MoS ₂ thin films by electron beam evaporation. <i>Thin Solid Films</i> , 2019, 681, 78-85.	0.8	18
30	Hydrothermal synthesis of NiCo ₂ O ₄ @NiO nanorods for high performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 7497-7506.	1.1	18
31	ZnO:InN oxynitride: A novel and unconventional photocatalyst for efficient UV-visible light driven hydrogen evolution from water. <i>Renewable Energy</i> , 2019, 141, 760-769.	4.3	15
32	Surfactant-mediated solvothermal synthesis of CuSbS ₂ nanoparticles as p-type absorber material. <i>Indian Journal of Physics</i> , 2019, 93, 185-195.	0.9	8
33	An investigation of microstructural evolution in electron beam welded RAFM steel and 316LN SS dissimilar joint under creep loading conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 432-441.	2.6	16
34	Temperature Raman Studies of Freestanding and Flexible Thin Films of CdS-doped PVDF. <i>Polymer Composites</i> , 2019, 40, 2662-2667.	2.3	2
35	Photovoltaic properties of F:SnO ₂ /CdS/CuO/Ag heterojunction solar cell. <i>Materials Research Bulletin</i> , 2019, 109, 1-9.	2.7	21
36	Sb:SnO ₂ thin films-synthesis and characterization. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1

#	ARTICLE	IF	CITATIONS
37	Conformational, vibrational spectroscopic and quantum chemical studies on 5-methoxyindole-3-carboxaldehyde: A DFT approach. AIP Conference Proceedings, 2018, , .	0.3	0
38	Thermoelectric properties of Ag-doped CuS nanocomposites synthesized by a facile polyol method. Physical Chemistry Chemical Physics, 2018, 20, 5926-5935.	1.3	75
39	Raman spectroscopic studies across the ferroelectric transition in cobalt substituted dimethyl amine manganese formate. Journal of Raman Spectroscopy, 2018, 49, 549-558.	1.2	6
40	Phosphorus doping of diamond-like carbon films by radio frequency CVD-cum-evaporation technique. Diamond and Related Materials, 2018, 82, 70-78.	1.8	15
41	Structural and Optical Properties of Manganese-doped Nanocrystalline Zinc Oxide/Polyvinylidene Fluoride Flexible Composite Thin Films Deposited by the Sol-gel Method. Advances in Polymer Technology, 2018, 37, 60-70.	0.8	2
42	Flexible and free-standing films containing cobalt-doped nanocrystalline zinc oxide dispersed in polyvinylidene fluoride matrix: synthesis and characterization. Polymer Bulletin, 2018, 75, 307-325.	1.7	4
43	Investigating the photocatalytic degradation property of Pt, Pd and Ni nanoparticles-loaded TiO ₂ nanotubes powder prepared via rapid breakdown anodization. Environmental Technology (United Kingdom), 2018, 39, 2994-3005.	1.2	12
44	CdS impregnated cellulose nanocrystals/PVDF composite flexible and freestanding films: Impedance spectroscopic studies. Polymer Engineering and Science, 2018, 58, 1419-1427.	1.5	4
45	Enhanced piezoelectric property induced in graphene oxide/polyvinylidene fluoride composite flexible thin films. Polymer Composites, 2018, 39, 4205-4216.	2.3	15
46	Synthesis, characterization and photo-response of p-type cupric oxide thin films prepared by sol-gel technique. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 236-237, 153-161.	1.7	4
47	Probing local structures in (Ni/Co)-doped ZnO/PVDF composite flexible and freestanding films by using XAS and XPS studies. X-Ray Spectrometry, 2018, 47, 484-494.	0.9	2
48	Freestanding flexible composite films of CdS-impregnated cellulose nanocrystals/PVDF: synthesis and characterization. International Journal of Plastics Technology, 2018, 22, 326-340.	2.9	1
49	Temperature dependent Raman studies of free standing thin films of cellulose. Materials Research Express, 2018, 5, 126401.	0.8	2
50	Investigations of Interfacial Electric Field on Reduced Graphene Oxide-Supported Molybdenum Oxide @ Silver Phosphate Ternary Hybrid Composite: Highly Efficient Visible-Light-Driven Photocatalyst. ChemistrySelect, 2018, 3, 9920-9932.	0.7	5
51	Fabrication and characterization of Cu/Cu ₂ O/CuO/ZnO/Al-ZnO/Ag heterojunction solar cells. Semiconductor Science and Technology, 2018, 33, 105007.	1.0	11
52	Cr:SnO ₂ thin films-synthesis and characterization. AIP Conference Proceedings, 2018, , .	0.3	1
53	Alternate current conductivity in BSb films prepared by PLD technique: Electron transport processes in low-temperature range (10-275 K). European Physical Journal Plus, 2017, 132, 1.	1.2	2
54	Cuprous oxide (Cu ₂ O) thin films prepared by reactive d.c. sputtering technique. Vacuum, 2017, 141, 296-306.	1.6	76

#	ARTICLE	IF	CITATIONS
55	Probing local structure of co doped polyvinylidene fluoride-ZnO thin films using X-ray absorption spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 131, 115-123.	1.5	4
56	Room Temperature Magnetism in Free-Standing Nano-Ni/PVDF Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2017, 56, 1213-1224.	1.9	4
57	A Facile Synthesis of LaFeO ₃ -Based Perovskites and Their Application towards Sensing of Neurotransmitters. <i>ChemistrySelect</i> , 2017, 2, 5570-5577.	0.7	39
58	Cupric oxide (CuO) thin films prepared by reactive d.c. magnetron sputtering technique for photovoltaic application. <i>Journal of Alloys and Compounds</i> , 2017, 724, 456-464.	2.8	136
59	Structural and Optical Studies on Sol-gel Composites of Nickel-Doped Nanocrystalline Zinc Oxide/Polyvinylidene Fluoride. <i>Polymer-Plastics Technology and Engineering</i> , 2017, 56, 310-320.	1.9	7
60	Enhanced Interfacial Properties of Electrochemically Deposited ZnO Nano Structured Electrode. <i>International Journal of Electrochemical Science</i> , 2017, , 6638-6652.	0.5	0
61	Local structure studies of Ni doped ZnO/PVDF composite free-standing flexible thin films using XPS and EXAFS studies. <i>Journal of Polymer Research</i> , 2016, 23, 1.	1.2	8
62	Studies on the multiferroic properties of (Zr, Cu) co-doped BiFeO ₃ prepared by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 579-586.	1.1	14
63	Flexible nano-ZnO/polyvinylidene difluoride piezoelectric composite films as energy harvester. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	28
64	Free-standing and flexible nano-ZnO/PVDF composite thin films: impedance spectroscopic studies. <i>Polymers for Advanced Technologies</i> , 2015, 26, 1176-1183.	1.6	5
65	Free-volume correlation with mechanical and dielectric properties of natural rubber/multi walled carbon nanotubes composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 77, 164-171.	3.8	48
66	Synthesis and characterization of boron antimonide films by pulsed laser deposition technique. <i>Applied Surface Science</i> , 2015, 353, 439-448.	3.1	13
67	Some aspects of microstructural and dielectric properties of nanocrystalline CdS/poly(vinylidene fluoride) composite thin films. <i>Polymer International</i> , 2015, 64, 924-934.	1.6	12
68	H ₂ S Gas Sensor Based on Nanocrystalline Copper/DLC Composite Films. <i>Plasmonics</i> , 2015, 10, 503-509.	1.8	6
69	Free-standing flexible nanocrystalline-ZnO-impregnated polyvinylidene fluoride composite thin films. <i>Journal of Composite Materials</i> , 2015, 49, 3089-3101.	1.2	12
70	Pulsed laser deposition: A viable route for the growth of aluminum antimonide film. <i>Journal of Crystal Growth</i> , 2015, 419, 12-19.	0.7	13
71	Free-standing nanocrystalline-Cadmium sulfide/Polyvinylidene fluoride composite thin film: synthesis and characterization. <i>Journal of Polymer Research</i> , 2015, 22, 1.	1.2	9
72	Coulomb Gap and Metal-Insulator-Semiconductor (MIS) Transition in ZnO/n-Ag/ZnO Film in the Plasmonic Domain. <i>Plasmonics</i> , 2015, 10, 1291-1300.	1.8	1

#	ARTICLE	IF	CITATIONS
73	Probing local environment of Mn-doped nanocrystalline-ZnO/PVDF composite thin films by XPS and EXAFS studies. <i>Polymer</i> , 2015, 78, 1-12.	1.8	13
74	In situ reductive regeneration of zerovalent iron nanoparticles immobilized on cellulose for atom efficient Cr(ν) adsorption. <i>RSC Advances</i> , 2015, 5, 89441-89446.	1.7	28
75	High temperature dielectric relaxation anomalies in $\text{Ca}_{0.9}\text{Nd}_{0.1}\text{Ti}_{0.9}\text{Al}_{0.1}\text{O}_{3-\delta}$ single crystals. <i>RSC Advances</i> , 2015, 5, 78414-78421.	1.7	30
76	Synthesis, structure and total conductivity of A-site doped $\text{LaTiO}_{3-\delta}$ perovskites. <i>Journal of Alloys and Compounds</i> , 2015, 626, 245-251.	2.8	28
77	Electron transport in the plasmonic regime: Silver nanoparticles in ZnO matrix. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 558-565.	0.7	1
78	Optical and Magnetic Properties of Co-Doped CuO Flower/Plates/Particles-Like Nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2577-2583.	0.9	26
79	Electrodeposited diamond-like carbon (DLC) films on n-Si(100) substrates for photovoltaic application. <i>Materials Science in Semiconductor Processing</i> , 2014, 25, 130-136.	1.9	18
80	Polycrystalline GaSb films prepared by the coevaporation technique. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 1251-1261.	1.1	4
81	A novel CdCl_2 treatment for glass/ SnO_2 /CBD-CdS/CdTe solar cell. <i>Materials Science in Semiconductor Processing</i> , 2014, 24, 74-82.	1.9	15
82	High pressure structural studies on nanophase praseodymium oxide. <i>Physica B: Condensed Matter</i> , 2014, 449, 109-112.	1.3	1
83	Enhanced dielectric and ferroelectric properties of BaTiO_3 ceramics prepared by microwave assisted radiant hybrid sintering. <i>Ceramics International</i> , 2014, 40, 8333-8339.	2.3	23
84	Inclusion of nano-Ag plasmonic layer enhancing the performance of $\text{p-Si}/\text{CdS}$ solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 890-900.	0.8	6
85	Deposition of CuCdS_2 thin film by single step solution process at low temperature as a novel absorber for photovoltaic applications. <i>Superlattices and Microstructures</i> , 2014, 76, 125-134.	1.4	11
86	Total conductivity in Sc-doped $\text{LaTiO}_{3-\delta}$ perovskites. <i>Ionics</i> , 2014, 20, 1343-1350.	1.2	15
87	Improvement on the Performance of InP/CdS Solar Cells with the Inclusion of Plasmonic Layer of Silver Nanoparticles. <i>Plasmonics</i> , 2014, 9, 1271-1281.	1.8	3
88	Studies on interfacial interactions of TiO_2 nanoparticles with bacterial cells under light and dark conditions. <i>Bulletin of Materials Science</i> , 2014, 37, 371-381.	0.8	20
89	Utilization of residual CdCl_2 in CBD-CdS to realize grain growth in CdTe: A novel route. <i>Materials Research Bulletin</i> , 2013, 48, 4711-4717.	2.7	2
90	Characterizing microstructural changes in ferritic steels by positron annihilation spectroscopy: Studies on modified 9Cr-1Mo steel. <i>Journal of Nuclear Materials</i> , 2013, 432, 266-273.	1.3	3

#	ARTICLE	IF	CITATIONS
91	Synthesis of carbon nano-fibers on p-Si having improved temperature sensing capability. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 83-88.	1.7	2
92	Growth of carbon nanostructures on p-, i- and n-Si substrates by electrochemical route. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 355301.	1.3	4
93	ZnO/Ti Thin Film: Synthesis, Characterization and Methane Gas Sensing Property. <i>Journal of Physics: Conference Series</i> , 2012, 390, 012065.	0.3	6
94	Growth of ZnTe films by pulsed laser deposition technique. <i>Journal of Alloys and Compounds</i> , 2012, 541, 104-110.	2.8	21
95	Studies on CdTe films deposited by pulsed laser deposition technique. <i>Physica B: Condensed Matter</i> , 2012, 407, 4214-4220.	1.3	17
96	Ferromagnetism in nanocrystalline nickel incorporated diamond-like carbon thin films. <i>Applied Surface Science</i> , 2012, 258, 5850-5857.	3.1	28
97	Two-source coevaporation technique for synthesis of indium phosphide films with controlled composition. <i>Journal of Alloys and Compounds</i> , 2012, 531, 34-40.	2.8	5
98	Novel BN/Pd composite films for stable liquid petroleum gas sensor. <i>Applied Surface Science</i> , 2012, 263, 788-794.	3.1	8
99	Effect of oxygen partial pressure and annealing on nanocrystalline p-type ZnO:Sb thin films. <i>Current Applied Physics</i> , 2012, 12, 1381-1385.	1.1	18
100	Synthesis and characterization of indium phosphide films prepared by co-evaporation technique. <i>Vacuum</i> , 2012, 86, 1240-1247.	1.6	9
101	Effect of nickel incorporation on the optical properties of diamond-like carbon (DLC) matrix. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 1111-1116.	1.9	19
102	Surface plasmon characteristics of nanocrystalline gold/DLC composite films prepared by plasma CVD technique. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 164, 156-164.	1.7	33
103	Characterization of nanocrystalline gold/DLC composite films synthesized by plasma CVD technique. <i>Applied Surface Science</i> , 2009, 255, 8076-8083.	3.1	39
104	Synthesis and characterization of composite films of silver nanoparticles embedded in DLC matrix prepared by plasma CVD technique. <i>EPJ Applied Physics</i> , 2009, 47, 10502.	0.3	26
105	Silicon doped SnO ₂ films for liquid petroleum gas sensor. <i>Vacuum</i> , 2008, 82, 760-770.	1.6	16
106	Boron phosphide films prepared by co-evaporation technique: Synthesis and characterization. <i>Thin Solid Films</i> , 2008, 516, 4958-4965.	0.8	24
107	Incorporation of nanocrystalline silver on carbon nanotubes by electrodeposition technique. <i>Materials Letters</i> , 2008, 62, 1874-1877.	1.3	23
108	Incorporation Of Nanocrystalline Silver on Carbon Nanotubes by Electrodeposition Technique. , 2008, , .		5

#	ARTICLE	IF	CITATIONS
109	Surface Plasmon Resonance in Nanocrystalline Gold-Copper Alloy Films. Journal of Nanoscience and Nanotechnology, 2007, 7, 4486-4493.	0.9	1
110	Liquid petroleum gas sensor based on SnO ₂ /Pd composite films deposited on Si/SiO ₂ substrates. Vacuum, 2007, 81, 985-996.	1.6	22
111	Synthesis of composite films of mixed Ag-Cu nanocrystallites embedded in DLC matrix and associated surface plasmon properties. Applied Surface Science, 2007, 253, 3649-3657.	3.1	21
112	BSb films: Synthesis and characterization. Journal of Crystal Growth, 2007, 305, 149-155.	0.7	26
113	Synthesis of B-Sb by rapid thermal annealing of B/Sb multilayer films. Journal Physics D: Applied Physics, 2006, 39, 2053-2058.	1.3	15
114	Surface plasmon effect in nanocrystalline copper/DLC composite films by electrodeposition technique. Bulletin of Materials Science, 2006, 29, 553-557.	0.8	17
115	Incorporation of silver nanoparticles in DLC matrix and surface plasmon resonance effect. Materials Chemistry and Physics, 2006, 99, 375-381.	2.0	45
116	Surface plasmon effect in nanocrystalline copper/DLC composite films by an electrodeposition technique. Journal Physics D: Applied Physics, 2005, 38, 900-908.	1.3	25