Kamlendra Awasthi

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/4505701/kamlendra-awasthi-publications-by-year.pdf

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers1,326
citations20
h-index31
g-index122
ext. papers1,678
ext. citations3.6
avg, IF4.81
L-index

#	Paper	IF	Citations
111	Functional role of single-atom catalysts in electrocatalytic hydrogen evolution: Current developments and future challenges. <i>Coordination Chemistry Reviews</i> , 2022 , 452, 214289	23.2	5
110	Enhanced hydrogen sensing performances of PdO nanoparticles-decorated ZnO flower-like nanostructures. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163545	5.7	1
109	A reversible tuning of Fermi level in BiSbTe3 thin films through ion implantation. <i>Materials Letters</i> , 2022 , 306, 130923	3.3	1
108	Bismuth Oxide Extended-Gate Field-Effect Transistor as pH Sensor. <i>Journal of Electronic Materials</i> , 2022 , 51, 2673-2681	1.9	O
107	Charge storage mechanism in vanadium telluride/carbon nanobelts as electroactive material in an aqueous asymmetric supercapacitor <i>Journal of Colloid and Interface Science</i> , 2022 , 621, 110-118	9.3	2
106	Insights into the progress of polymeric nano-composite membranes for hydrogen separation and purification in the direction of sustainable energy resources. <i>Separation and Purification Technology</i> , 2021 , 120029	8.3	2
105	Rapid thermal annealing induced engineering of surface and photoluminescence properties of (K,Na)NbO3 thin films for optoelectronic applications. <i>Applied Surface Science</i> , 2021 , 151794	6.7	О
104	Tuning of fermi level in antimony telluride thin films by low-energy Fellon implantation. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	9
103	Structural and Morphological Modifications Induced by Fe Ion Implantation in Sb2Te3 Thin Films. <i>Macromolecular Symposia</i> , 2021 , 399, 2100079	0.8	1
102	Recent advances in application of the graphene-based membrane for water purification. <i>Materials Today Chemistry</i> , 2021 , 22, 100597	6.2	6
101	UV-irradiation assisted functionalization and binding of Pd nanoparticles in polycarbonate membranes for hydrogen separation. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 46404-464	4 13	1
100	Facile synthesis of Pd@ZnO core@shell nanoparticles for selective ethanol detection. <i>Materials Letters: X</i> , 2021 , 10, 100068	0.5	1
99	Biosensors for diagnosis of urinary tract infections: Advances and future challenges. <i>Materials Letters: X</i> , 2021 , 10, 100077	0.5	2
98	Luminescent and structural behaviour of Tb+3 ions doped TiO2 nanoparticles synthesized by facile sol-gel method. <i>Physica B: Condensed Matter</i> , 2021 , 602, 412465	2.8	2
97	Effect of nanostructuring on surface oxidation of bismuth telluride. <i>Materials Today: Proceedings</i> , 2021 , 38, 1255-1258	1.4	
96	Zinc oxide nanostructuresBased biosensors 2021 , 655-695		2
95	General introduction of zinc oxide nanomaterials 2021 , 1-19		

24 Zinc-Oxide based EGFET pH sensors **2021**, 459-481

93	Metal-Immobilized Micellar Aggregates of a Block Copolymer from a Mixed Solvent for a SERS-Active Sensing Substrate and Versatile Dip Catalysis. <i>Langmuir</i> , 2021 , 37, 2445-2456	4	3
92	Palladium-oxide Extended Gate Field Effect Transistor as pH Sensor. <i>Materials Letters: X</i> , 2021 , 12, 100	102 5	
91	An efficient hydrogen gas sensor based on hierarchical Ag/ZnO hollow microstructures. <i>Sensors and Actuators B: Chemical</i> , 2021 , 346, 130510	8.5	11
90	Conjugate polymer-based membranes for gas separation applications: current status and future prospects. <i>Materials Today Chemistry</i> , 2021 , 22, 100558	6.2	2
89	Synthesis of ZnO nanostructures 2021 , 93-116		1
88	Impact of defects on the structural and electrical transport properties of Sb2Te3 thin films by SHI irradiation. <i>Materials Letters: X</i> , 2021 , 12, 100113	0.5	
87	Synthesis and characterization of terbium doped TiO2 nanoparticles and their use as recyclable and reusable heterogeneous catalyst for efficient and environmentally sustainable synthesis of spiroannulated indolo[3,2-c]quinolines- mimetic scaffolds of isocryptolepine. <i>Applied</i>	3.1	5
86	Development of ZnO nanostructure film for pH sensing application. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	15
85	Synthesis and thermal analysis of polyaniline (PANI). <i>Journal of Physics: Conference Series</i> , 2020 , 1531, 012108	0.3	3
84	Dose dependent enhanced antibacterial effects and reduced biofilm activity against Bacillus subtilis in presence of ZnO nanoparticles. <i>Materials Science and Engineering C</i> , 2020 , 113, 111021	8.3	14
83	Nanoporous Polymeric Membranes for Hydrogen Separation. <i>Green Energy and Technology</i> , 2020 , 355-	376 6	
82	Highly stable nanostructured Bi2Se3 anode material for all solid-state lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155403	5.7	12
81	Efficient and Sustainable Synthesis of Spiroannulated Hybrid Molecules with Privileged Substructures using Nanostructured Heterogeneous Catalyst. <i>ChemistrySelect</i> , 2020 , 5, 14069-14077	1.8	
80	Electrochemical reaction mechanism for Bi2Te3-based anode material in highly durable all solid-state lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 16429-1	6436	6
79	Active block copolymer layer on carboxyl-functionalized PET film for hydrogen separation. International Journal of Hydrogen Energy, 2020 , 45, 18676-18684	6.7	2
78	The destabilization of LiBH4 through the addition of Bi2Se3 nanosheets. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 23947-23953	6.7	7
77	Hydrogen ion sensing characteristics of Na3BiO4 B i2O3 mixed oxide nanostructures based EGFET pH sensor. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18743-18751	6.7	20

76	Nanostructured Bi2Te3 as anode material as well as a destabilizing agent for LiBH4. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16992-16999	6.7	11
75	Gas sensing properties of ZnO nanostructures (flowers/rods) synthesized by hydrothermal method. <i>Sensors and Actuators B: Chemical</i> , 2019 , 292, 24-31	8.5	113
74	Disposable bismuth-based electrodes for heavy metal ion detection. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 228, 012014	0.3	1
73	Morphology-dependent structural and optical properties of ZnO nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	13
72	Optical studies on bismuth chalcogenides. <i>Materials Today: Proceedings</i> , 2019 , 10, 142-150	1.4	2
71	Flower-like BiS nanostructures as highly efficient anodes for all-solid-state lithium-ion batteries <i>RSC Advances</i> , 2019 , 9, 29549-29555	3.7	15
70	LiBH4 as solid electrolyte for Li-ion batteries with Bi2Te3 nanostructured anode. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 21709-21714	6.7	13
69	Synthesis and characterization of polyaniline membranes with Becondary amine additive containing N,N?-dimethyl propylene urea for fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 21715-21723	6.7	7
68	Electrochemical hydrogen evolution and storage studies on bismuth nano hexagons. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 21642-21648	6.7	11
67	Synthesis and characterization of hybrid PANI/MWCNT nanocomposites for EMI applications. <i>Polymer Composites</i> , 2018 , 39, 3858-3868	3	27
66	Polyaniline Carbon Nanotube Composites: Preparation Methods, Properties, and Applications. <i>Polymer-Plastics Technology and Engineering</i> , 2018 , 57, 70-97		46
65	Functionalized and engineered nanochannels for gas separation. <i>Pure and Applied Chemistry</i> , 2018 , 90, 1063-1071	2.1	5
64	Effect of UV irradiation on PC membrane and use of Pd nanoparticles with/without PVP for H2 selectivity enhancement over CO2 and N2 gases. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 21690-21698	6.7	9
63	Investigation of dimensionality-dependent thermal stability of ({hbox {Bi}}_{2} {hbox {Te}}_{3}). <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	2
62	Electrochemical sensor for detection of mercury (II) ions in water using nanostructured bismuth hexagons. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	11
61	An efficient and environmentally sustainable domino protocol for the synthesis of structurally diverse spiroannulated pyrimidophenazines using erbium doped TiO nanoparticles as a recyclable and reusable heterogeneous acid catalyst <i>RSC Advances</i> , 2018 , 8, 30430-30440	3.7	16
60	Investigation of luminescence and structural properties of ZnO nanoparticles, synthesized with different precursors. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1413-1421	7.8	61
59	Effects of hydroxyl-functionalized multiwalled carbon nanotubes on sperm health and testes of Wistar rats. <i>Toxicology and Industrial Health</i> , 2017 , 33, 519-529	1.8	4

(2015-2017)

58	Palladium nanoparticle binding in functionalized track etched PET membrane for hydrogen gas separation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 16186-16194	6.7	14	
57	Selective deposition of Pd nanoparticles in porous PET membrane for hydrogen separation. International Journal of Hydrogen Energy, 2017 , 42, 15203-15210	6.7	11	
56	Effective Doping of Er3+ in ZnO Nanoparticles to Control Its Luminescent Properties. <i>Macromolecular Symposia</i> , 2017 , 376, 1700005	0.8	2	
55	Hydrogen gas separation with controlled selectivity via efficient and cost effective block copolymer coated PET membranes. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 19977-19983	6.7	10	
54	Titania nanodots array using self-assembled poly(styrene)-b-poly(4-vinylpyridine) block copolymer nanotemplates via ex-situ approach. <i>Materials Letters</i> , 2017 , 209, 365-368	3.3	2	
53	Investigation of thermal stability of TiO 2 nanoparticles using 1-thioglycerol as capping agent. <i>Solid State Communications</i> , 2017 , 263, 1-5	1.6	5	
52	Effect of ZnO Nanoparticles on Germination of Triticum aestivum Seeds. <i>Macromolecular Symposia</i> , 2017 , 376, 1700043	0.8	24	
51	Effect of Volume Fraction of Minority Block on Morphology of PS-b-P4VP Nanotemplates. <i>Macromolecular Symposia</i> , 2017 , 376, 1700016	0.8	2	
50	Hydrogen Sorption Characteristics of ZrCrAl Ternary Alloy as a Function of Milling Time. <i>Macromolecular Symposia</i> , 2017 , 376, 1700047	0.8	1	
49	Functionalized Pd-decorated and aligned MWCNTs in polycarbonate as a selective membrane for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 23057-23066	6.7	29	
48	Electrical behavior of dual-morphology polyaniline. Journal of Applied Polymer Science, 2016, 133,	2.9	22	
47	ZnO nanoparticles favours heterogeneous nucleation in PETIZnO nanocomposites. <i>Philosophical Magazine</i> , 2015 , 95, 2306-2322	1.6	2	
46	Cytotoxicity, genotoxicity and alteration of cellular antioxidant enzymes in silver nanoparticles exposed CHO cells. <i>RSC Advances</i> , 2015 , 5, 34927-34935	3.7	24	
45	An efficient one pot three-component nanocatalyzed synthesis of spiroheterocycles using TiO2 nanoparticles as a heterogeneous catalyst. <i>RSC Advances</i> , 2015 , 5, 46415-46422	3.7	24	
44	SHI irradiation of metal doped zinc sulfide polymer nanocomposites synthesized using micro emulsion method. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 358, 258-262	1.2	2	
43	Thermal Stability and Electrical Properties of Polyaniline Synthesized by Oxidative Polymerization Method. <i>Macromolecular Symposia</i> , 2015 , 357, 168-172	0.8	10	
42	Toxicological Evaluation of TiO2 Nanoparticles in Bacterial Cell. <i>Macromolecular Symposia</i> , 2015 , 357, 235-240	0.8	3	
41	Poly (Ethylene Terephthalate)-ZnO Nanocomposites: Optical and Raman Studies. <i>Macromolecular Symposia</i> , 2015 , 357, 105-108	0.8	1	

40	Preface to the special issue on Boft MaterialsIICSM 2014. <i>Macromolecular Symposia</i> , 2015 , 357, 11-11	0.8	
39	A Comparative Study of the Effects of Oxygen Ions Upon the Free Volume and Physico-Chemical Properties of Makrofol (KG & N) Polycarbonate. <i>Macromolecular Symposia</i> , 2015 , 357, 86-98	0.8	
38	Structural and Morphological Study of PS-TiO2 Nanocomposite Membranes. <i>Macromolecular Symposia</i> , 2015 , 357, 200-205	0.8	3
37	Structural and Morphological Study of PS-ZnO Nanocomposite Membrane. <i>Macromolecular Symposia</i> , 2015 , 357, 218-222	0.8	5
36	Silver Nanoparticles and Carbon Nanotubes Induced DNA Damage in Mice Evaluated by Single Cell Gel Electrophoresis. <i>Macromolecular Symposia</i> , 2015 , 357, 210-217	0.8	5
35	Optical and Structural Study of Polyaniline/Polystyrene Composite Films. <i>Macromolecular Symposia</i> , 2015 , 357, 229-234	0.8	19
34	In Vivo Genotoxic Assessment Of Silver Nanoparticles In Liver Cells Of Swiss Albino Mice Using Comet Assay. <i>Advanced Materials Letters</i> , 2015 , 6, 187-193	2.4	15
33	Functionalization of track-etched poly (ethylene terephthalate) membranes as a selective filter for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9356-9365	6.7	21
32	Non-isothermal crystallization kinetics of TiO2 nanoparticle-filled poly(ethylene terephthalate) with structural and chemical properties. <i>Polymer Bulletin</i> , 2014 , 71, 1539-1555	2.4	13
31	60MeV Ni ion induced modifications in nano-CdS/polystyrene composite films. <i>Radiation Physics and Chemistry</i> , 2014 , 94, 49-53	2.5	21
30	Synthesis and Crystallization Studies of Thermo-plastic Polyster/Titania Nanocomposites. <i>Journal of Nuclear Physics Material Sciences Radiation and Applications</i> , 2014 , 1, 207-211	0.2	7
29	Surface Modification Of Nanocomposite Polymer Membranes By Ion Plasma Irradiation For Improving Biocompatibility Of Polymer. <i>Advanced Materials Letters</i> , 2014 , 5, 645-651	2.4	8
28	Silver nanoparticle induced cytotoxicity, oxidative stress, and DNA damage in CHO cells. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	43
27	Multi walled carbon nano tubes induced hepatotoxicity in Swiss albino mice. <i>Micron</i> , 2013 , 44, 359-64	2.3	48
26	Antimicrobial Properties of Electro-Chemically Stabilized Organo-Metallic Thin Films 2013 , 1, 42-47		9
25	Synthesis and Characterization of Plasma Treated TiO2 Nano Composites Polymer Membranes 2013 , 1, 98-104		4
24	ZnO Doping in PET Matrix Enhances Conductivity of PET-ZnO Nanocomposites 2013 , 1, 118-123		2
23	Large area Cl9+ irradiated PET membranes for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9374-9381	6.7	15

(2006-2010)

22	OPTICAL AND DYNAMIC MECHANICAL CHARACTERIZATION OF THIN FILM POLYMER NANOCOMPOSITES. <i>International Journal of Modern Physics B</i> , 2010 , 24, 57-63	1.1	Ο
21	Optical, chemical and structural modification of oxygen irradiated PET. <i>Radiation Measurements</i> , 2010 , 45, 850-855	1.5	44
20	Microstructure change in poly(ethersulfone) films by swift heavy ions. <i>Micron</i> , 2010 , 41, 390-4	2.3	22
19	Enhancement of hydrogen gas permeability in electrically aligned MWCNT-PMMA composite membranes. <i>Micron</i> , 2010 , 41, 909-14	2.3	49
18	Hydrogen separation in doped and blend polymer membranes. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 327-331	6.7	32
17	Study of hydrogen transport through porous aluminum and composite membranes. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 346-349	6.7	17
16	Characterization of asymmetric polymeric membranes by gas permeation. <i>Micron</i> , 2007 , 38, 326-9	2.3	9
15	Characterization of Nanocomposite Polymeric Membrane. <i>Journal of Polymer Research</i> , 2007 , 13, 357-3	60 .7	23
14	Swift heavy ion (SHI) irradiated polymer blend membranes for hydrogen permeation. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 3105-3108	6.7	22
13	Preparation and Characterization of Zn-Se Bilayer Structure. <i>Advanced Materials Research</i> , 2007 , 31, 15	3- <u>1.5</u> 7	
12	Structural, optical, thermo-mechanical and transport properties of ion irradiated polymer membranes. <i>Polymer Bulletin</i> , 2006 , 56, 427-435	2.4	28
11	Conduction nature of conical pores in PET membrane. <i>Polymer Bulletin</i> , 2006 , 57, 723-728	2.4	7
10	Transport through track etched polymeric blend membrane. Bulletin of Materials Science, 2006, 29, 261	-2 ₁₆₇ 4	20
9	Swift heavy ion irradiated polymeric membranes for gas permeation. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 2386-2390	2.9	11
9		2.9	11
	Science, 2006, 102, 2386-2390 Temperature Dependence Study of Gas Permeability in Metal Doped Composite Polymeric	2.9	11
8	Science, 2006, 102, 2386-2390 Temperature Dependence Study of Gas Permeability in Metal Doped Composite Polymeric Membranes. Materials Research Society Symposia Proceedings, 2006, 973, 1 Surface Modification and Synthesis of Polymeric Membrane for Energy and Biological Applications.	4	

4	Study of gas permeation for asymmetric track-etched polymer blends. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 1266-1270	6.7	19
3	Using fast atomic source and low-energy plasma ions for polymer surface modification. <i>Vacuum</i> , 2006 , 80, 643-646	3.7	14
2	Gas permeation study of Ti-coated, track-etched polymeric membranes. <i>Vacuum</i> , 2006 , 81, 389-393	3.7	19
1	Effect of temperature and <code>Hrradiation</code> on gas permeability for polymeric membrane. <i>Bulletin of Materials Science</i> , 2005 , 28, 643-646	1.7	10