

Trilochan Mishra

List of Publications by Year in descending order

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56
papers

1,606
citations

236925

25
h-index

315739

38
g-index

57
all docs

57
docs citations

57
times ranked

2044
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition dependent structural modulations in transparent poly(vinyl alcohol) hydrogels. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 186-190.	5.0	90
2	Development and characterization of sol-gel silica-alumina composite coatings on AISI 316L for implant applications. <i>Surface and Coatings Technology</i> , 2007, 201, 7582-7588.	4.8	80
3	Synthesis, characterisation and catalytic evaluation of iron-manganese mixed oxide pillared clay for VOC decomposition reaction. <i>Applied Catalysis B: Environmental</i> , 2008, 79, 279-285.	20.2	75
4	A comparative study on enhanced arsenic(V) and arsenic(III) removal by iron oxide and manganese oxide pillared clays from ground water. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1224-1230.	6.7	75
5	Stabilization of intrinsic defects at high temperatures in ZnO nanoparticles by Ag modification. <i>Journal of Colloid and Interface Science</i> , 2012, 366, 8-15.	9.4	69
6	Synthesis and photocatalytic activity of mesoporous cerium doped TiO ₂ as visible light sensitive photocatalyst. <i>Materials Research Bulletin</i> , 2012, 47, 179-183.	5.2	64
7	Characterization and pollutant removal efficiency of biochar derived from baggase, bamboo and tyre. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 9023-9039.	2.7	61
8	Studies on sorption properties of zeolite derived from Indian fly ash. <i>Journal of Hazardous Materials</i> , 2006, 137, 299-303.	12.4	57
9	Adsorption isotherm modeling for methylene blue removal onto magnetic kaolinite clay: a comparison of two-parameter isotherms. <i>Applied Water Science</i> , 2021, 11, 1.	5.6	57
10	Studies on anion promoted Titania. <i>Journal of Molecular Catalysis A</i> , 2000, 156, 267-274.	4.8	49
11	Effect of UV and visible light on photocatalytic reduction of lead and cadmium over titania based binary oxide materials. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 80-84.	9.4	49
12	Simultaneous photoreductive removal of copper (II) and selenium (IV) under visible light over spherical binary oxide photocatalyst. <i>Journal of Hazardous Materials</i> , 2011, 186, 360-366.	12.4	46
13	Transition-metal oxide pillared clays. <i>Journal of Materials Chemistry</i> , 1997, 7, 147-152.	6.7	42
14	A mesoporous WN co-doped titania nanomaterial with enhanced photocatalytic aqueous nitrate removal activity under visible light. <i>Catalysis Science and Technology</i> , 2011, 1, 609.	4.1	41
15	Synthesis of titanium based hetero MOF photocatalyst for reduction of Cr (VI) from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103240.	6.7	40
16	Transition metal pillared clay 4. A comparative study of textural, acidic and catalytic properties of chromia pillared montmorillonite and acid activated montmorillonite. <i>Applied Catalysis A: General</i> , 1998, 166, 123-133.	4.3	39
17	Transition Metal Oxide Pillared Clay. <i>Journal of Colloid and Interface Science</i> , 1996, 183, 176-183.	9.4	36
18	Transition metal pillared clay:. <i>Journal of Molecular Catalysis A</i> , 1997, 121, 91-96.	4.8	36

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19	Hexadecylamine capped silver and gold nanoparticles: Comparative study on formation and self-organization. <i>Materials Chemistry and Physics</i> , 2010, 123, 540-545.	4.0	35
20	Transition metal oxide pillared clay: 5. Synthesis, characterisation and catalytic activity of iron-chromium mixed oxide pillared montmorillonite. <i>Applied Catalysis A: General</i> , 1998, 174, 91-98.	4.3	33
21	Studies on Anion Promoted Titania.1: Preparation, Characterization, and Catalytic Activity toward Alcohol and Cumene Conversion Reactions of Phosphated Titania. <i>Journal of Colloid and Interface Science</i> , 1999, 217, 388-394.	9.4	32
22	Polymer assisted hydroxyapatite microspheres suitable for biomedical application. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2009-2013.	3.6	32
23	Anion supported TiO ₂ -ZrO ₂ nanomaterial synthesized by reverse microemulsion technique as an efficient catalyst for solvent free nitration of halobenzene. <i>Catalysis Communications</i> , 2008, 9, 21-26.	3.3	31
24	Topographical heterogeneity in transparent PVA hydrogels studied by AFM. <i>Materials Science and Engineering C</i> , 2012, 32, 222-227.	7.3	29
25	Effect of microemulsion composition on textural and photocatalytic activity of titania nanomaterial. <i>Applied Catalysis A: General</i> , 2006, 310, 183-189.	4.3	27
26	Cation Exchange and Sorption Properties of Aluminum Phosphate. <i>Separation Science and Technology</i> , 1998, 33, 1057-1073.	2.5	25
27	Effect of sulfate on the surface and catalytic properties of iron-chromium mixed oxide pillared clay. <i>Journal of Colloid and Interface Science</i> , 2006, 301, 554-559.	9.4	25
28	Surfactant mediated synthesis of spherical binary oxides photocatalytic with enhanced activity in visible light. <i>Journal of Colloid and Interface Science</i> , 2008, 327, 377-383.	9.4	23
29	In-situ Cr doped anodized TiO ₂ nanotubes with increased photocurrent response. <i>Electrochimica Acta</i> , 2014, 132, 410-415.	5.2	23
30	Effect of N-doping on visible light activity of TiO ₂ -SiO ₂ mixed oxide photocatalysts. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 191-196.	6.7	23
31	Facile synthesis of mesoporous N doped zirconium titanium mixed oxide nanomaterial with enhanced photocatalytic activity under visible light. <i>Journal of Materials Chemistry</i> , 2010, 20, 10876.	6.7	22
32	Recent Development in Clay Based Functional Coating for Corrosion Protection. <i>Key Engineering Materials</i> , 0, 571, 93-109.	0.4	22
33	Development of novel TiO ₂ -Cu ₂ (OH)PO ₄ heterojunction as nanophotocatalyst for improved Cr (VI) reduction. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102968.	6.7	21
34	Transition metal promoted AlPO ₄ catalyst 2. The catalytic activity of M _{0.05} Al _{0.95} PO ₄ for alcohol conversion and cumene cracking/dehydrogenation reactions. <i>Applied Catalysis A: General</i> , 1998, 166, 115-122.	4.3	20
35	Capsule-embedded reduced graphene oxide: synthesis, mechanism and electrical properties. <i>Journal of Materials Chemistry C</i> , 2013, 1, 958-966.	5.5	20
36	Microwave-Assisted Synthesis of Magnetic Ni Wire from a Metal-Organic Precursor Containing Ni(II) and Triethanolamine. <i>Crystal Growth and Design</i> , 2008, 8, 3754-3760.	3.0	19

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37	Development and degradation behavior of protective multilayer coatings for aluminum reflectors for solar thermal applications. <i>Thin Solid Films</i> , 2016, 619, 202-207.	1.8	15
38	Transition Metal Promoted Amorphous AlPO ₄ Catalysts 1. Acid-Base and Textural Properties. <i>Journal of Colloid and Interface Science</i> , 1996, 179, 233-240.	9.4	14
39	Collagen functionalized graphene sheets decorated with in situ synthesized nano hydroxyapatite electrospun into fibers. <i>Materials Today Communications</i> , 2019, 18, 167-175.	1.9	14
40	Thermal transformation of trinuclear Fe(III) acetate complex intercalated montmorillonite. <i>Applied Clay Science</i> , 1999, 15, 463-475.	5.2	12
41	Tungstate-modified aluminium phosphate. <i>Journal of Molecular Catalysis A</i> , 2000, 164, 217-223.	4.8	10
42	Influence of foreign Fe ions on wet chemical synthesis of Pt nanoparticle thin films at ambient temperature: in situ versus direct addition. <i>Journal of Materials Chemistry</i> , 2009, 19, 6810.	6.7	10
43	Pillared Clay as an Effective Catalyst for Low Temperature VOCs Decomposition. <i>Key Engineering Materials</i> , 2013, 571, 71-91.	0.4	10
44	Improved Interfacial Charge Transfer on Noble Metal-Free Biomimetic CdS-Based Tertiary Heterostructure @ 2D MoS ₂ /CdS/Cu ₂ O with Enhanced Photocatalytic Water Splitting. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	10
45	Shock wave induced exfoliation of molybdenum disulfide (MoS ₂) in various solvents: All-atom molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2020, 314, 113671.	4.9	8
46	Transition Metal Oxide-Pillared Clay Catalyst: Synthesis to Application. , 2010, , 99-128.		7
47	Recent Development on Titania Based Mixed Oxide Photocatalysts for Environmental Application under Visible Light. <i>Materials Science Forum</i> , 0, 734, 186-214.	0.3	6
48	Mimicking biomineralization under microgravity. <i>Materials Science and Engineering C</i> , 2009, 29, 779-784.	7.3	5
49	Manipulation of mechanical properties of monolayer molybdenum disulfide: Kirigami and hetero-structure based approach. <i>Materials Chemistry and Physics</i> , 2020, 252, 123280.	4.0	5
50	Recent advances in 2D MXene-based heterostructured photocatalytic materials. , 2021, , 329-362.		4
51	Dangling Bond-Induced Surface Depletion in CdS Leaf. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2977-2987.	4.3	4
52	Development of magnetically separable mesoporous N doped TiO ₂ -SiO ₂ coated Fe ₃ O ₄ nanomaterial as solar photocatalyst for environmental application. <i>Materials Research Express</i> , 2019, 6, 105544.	1.6	2
53	Oxide-based self-cleaning and corrosion protective coatings. , 2021, , 135-173.		1
54	Catalytic activity of transition metal mixed amorphous aluminium phosphate towards alcohol conversion reactions.. <i>Studies in Surface Science and Catalysis</i> , 1998, , 963-973.	1.5	0

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55	Single Step Synthesis Of Ni Wire, Sponge And Flower, And Their Magnetic Properties. AIP Conference Proceedings, 2008, , .	0.4	0
56	Organization of Bio-Molecules in Bulk and Over the Nano-Substrate: Perspective to the Molecular Dynamics Simulations. , 2020, , 149-166.		0