

Trilochan Mishra

List of Publications by Year in descending order

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56
papers

1,606
citations

236925

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315739

38
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57
all docs

57
docs citations

57
times ranked

2044
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved Interfacial Charge Transfer on Noble Metal-Free Biomimetic Cd-Based Tertiary Heterostructure @ 2D MoS ₂ @ Cd-Cu ₂ O with Enhanced Photocatalytic Water Splitting. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	10
2	Oxide-based self-cleaning and corrosion protective coatings. , 2021, , 135-173.		1
3	Recent advances in 2D MXene-based heterostructured photocatalytic materials. , 2021, , 329-362.		4
4	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
5	Dangling Bond-Induced Surface Depletion in CdS Leaf. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2977-2987.	4.3	4
6	Organization of Bio-Molecules in Bulk and Over the Nano-Substrate: Perspective to the Molecular Dynamics Simulations. , 2020, , 149-166.		0
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	In-situ Cr doped anodized TiO ₂ nanotubes with increased photocurrent response. <i>Electrochimica Acta</i> , 2014, 132, 410-415.	5.2	23
18	Pillared Clay as an Effective Catalyst for Low Temperature VOCs Decomposition. <i>Key Engineering Materials</i> , 2013, 571, 71-91.	0.4	10

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19	Capsule-embedded reduced graphene oxide: synthesis, mechanism and electrical properties. Journal of Materials Chemistry C, 2013, 1, 958-966.	5.5	20
20	Stabilization of intrinsic defects at high temperatures in ZnO nanoparticles by Ag modification. Journal of Colloid and Interface Science, 2012, 366, 8-15.	9.4	69
21	Synthesis and photocatalytic activity of mesoporous cerium doped TiO ₂ as visible light sensitive photocatalyst. Materials Research Bulletin, 2012, 47, 179-183.	5.2	64
22	Topographical heterogeneity in transparent PVA hydrogels studied by AFM. Materials Science and Engineering C, 2012, 32, 222-227.	7.3	29
23	A mesoporous WN co-doped titania nanomaterial with enhanced photocatalytic aqueous nitrate removal activity under visible light. Catalysis Science and Technology, 2011, 1, 609.	4.1	41
24	Simultaneous photoreductive removal of copper (II) and selenium (IV) under visible light over spherical binary oxide photocatalyst. Journal of Hazardous Materials, 2011, 186, 360-366.	12.4	46
25	Hexadecylamine capped silver and gold nanoparticles: Comparative study on formation and self-organization. Materials Chemistry and Physics, 2010, 123, 540-545.	4.0	35
26	Facile synthesis of mesoporous N doped zirconium titanium mixed oxide nanomaterial with enhanced photocatalytic activity under visible light. Journal of Materials Chemistry, 2010, 20, 10876.	6.7	22
27	Transition Metal Oxide-Pillared Clay Catalyst: Synthesis to Application. , 2010, , 99-128.		7
28	Mimicking biomineralization under microgravity. Materials Science and Engineering C, 2009, 29, 779-784.	7.3	5
29	Composition dependent structural modulations in transparent poly(vinyl alcohol) hydrogels. Colloids and Surfaces B: Biointerfaces, 2009, 74, 186-190.	5.0	90
30	Influence of foreign Fe ions on wet chemical synthesis of Pt nanoparticle thin films at ambient temperature: in situ versus direct addition. Journal of Materials Chemistry, 2009, 19, 6810.	6.7	10
31	Polymer assisted hydroxyapatite microspheres suitable for biomedical application. Journal of Materials Science: Materials in Medicine, 2008, 19, 2009-2013.	3.6	32
32	Surfactant mediated synthesis of spherical binary oxides photocatalytic with enhanced activity in visible light. Journal of Colloid and Interface Science, 2008, 327, 377-383.	9.4	23
33	Synthesis, characterisation and catalytic evaluation of iron-manganese mixed oxide pillared clay for VOC decomposition reaction. Applied Catalysis B: Environmental, 2008, 79, 279-285.	20.2	75
34	Anion supported TiO ₂ -ZrO ₂ nanomaterial synthesized by reverse microemulsion technique as an efficient catalyst for solvent free nitration of halobenzene. Catalysis Communications, 2008, 9, 21-26.	3.3	31
35	Microwave-Assisted Synthesis of Magnetic Ni Wire from a Metal-Organic Precursor Containing Ni(II) and Triethanolamine. Crystal Growth and Design, 2008, 8, 3754-3760.	3.0	19
36	Single Step Synthesis Of Ni Wire, Sponge And Flower, And Their Magnetic Properties. AIP Conference Proceedings, 2008, , .	0.4	0

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37	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
38	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
39	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
40	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
41	Studies on sorption properties of zeolite derived from Indian fly ash. <i>Journal of Hazardous Materials</i> , 2006, 137, 299-303.	12.4	57
42	Studies on anion promoted Titania. <i>Journal of Molecular Catalysis A</i> , 2000, 156, 267-274.	4.8	49
43	Tungstate-modified aluminium phosphate. <i>Journal of Molecular Catalysis A</i> , 2000, 164, 217-223.	4.8	10
44	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
45	Thermal transformation of trinuclear Fe(III) acetato complex intercalated montmorillonite. <i>Applied Clay Science</i> , 1999, 15, 463-475.	5.2	12
46	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
47	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
48	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
49	Cation Exchange and Sorption Properties of Aluminum Phosphate. <i>Separation Science and Technology</i> , 1998, 33, 1057-1073.	2.5	25
50	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
51	Transition-metal oxide pillared clays. <i>Journal of Materials Chemistry</i> , 1997, 7, 147-152.	6.7	42
52	Transition metal pillared clay:. <i>Journal of Molecular Catalysis A</i> , 1997, 121, 91-96.	4.8	36
53	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
54	Transition Metal Oxide Pillared Clay. <i>Journal of Colloid and Interface Science</i> , 1996, 183, 176-183.	9.4	36

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55	Recent Development on Titania Based Mixed Oxide Photocatalysts for Environmental Application under Visible Light. Materials Science Forum, 0, 734, 186-214.	0.3	6
56	Recent Development in Clay Based Functional Coating for Corrosion Protection. Key Engineering Materials, 0, 571, 93-109.	0.4	22