Tapas Kumar Mandal

List of Publications by Year
in descending order

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53 papers	1,295 citations	377584 21 h-index	406436 35 g-index
61 all docs	61 docs citations	61 times ranked	2123 citing authors

#	Article	IF	Citations
1	Tri-Î±-PbO₂-Type Feâ€“Sb Tungstate by Topotactic Ion Exchange of LiSbWO₆. ACS Applied Electronic Materials, 2021, 3, 2504-2511.	2.0	6
2	Ambient pressure synthesis and properties of LaCu3Fe2TiSbO12: New A-site ordered ferrimagnetic quadruple perovskite. Journal of Solid State Chemistry, 2021, 302, 122433.	1.4	1
3	Batch and column study on tetracycline removal using green synthesized NiFe nanoparticles immobilized alginate beads. Environmental Technology and Innovation, 2020, 17, 100520.	3.0	22
4	Citrate combustion synthesized Al-doped CaCu₃Ti₄O₁₂ quadruple perovskite: synthesis, characterization and multifunctional properties. Physical Chemistry Chemical Physics, 2020, 22, 3499-3511.	1.3	18
5	Coupled-substituted double-layer Aurivillius niobates: structures, magnetism and solar photocatalysis. Dalton Transactions, 2020, 49, 1433-1445.	1.6	16
6	Composition dependent 3C and 6H perovskites, A3MTiSbO9 (A = Sr, Ba; M = Mn, Co): Structural, magnetic and dielectric properties. Journal of Solid State Chemistry, 2020, 282, 121116.	1.4	3
7	Investigation of multiferroic behaviour at room temperature in Bi-induced orthoferrite: combined experimental and first principles studies. Bulletin of Materials Science, 2020, 43, 1.	0.8	6
8	In-situ-grown hierarchical mesoporous Li3VO4 on GO as a viable anode material for lithium ion batteries. Bulletin of Materials Science, 2020, 43, 1.	0.8	2
9	Enhancing photocatalytic degradation of quinoline by ZnO:TiO2 mixed oxide: Optimization of operating parameters and mechanistic study. Journal of Environmental Management, 2020, 258, 110032.	3.8	50
10	Manganese Trioxide with Various Morphologies: Applications in Catalytic Dye Degradation. ChemistrySelect, 2020, 5, 4674-4684.	0.7	5
11	Multifunctional properties of ceria nanocubes synthesized by a hydrothermal method. Bulletin of Materials Science, 2019, 42, 1.	0.8	5
12	Multimodal mesopore hierarchy in Li3VO4 boosts electrochemical anode performance of lithium-ion batteries. Microporous and Mesoporous Materials, 2019, 290, 109669.	2.2	4
13	Ag+ driven antimicrobial activity of Ag+: ZnO nanowires immobilized on paper matrices. Materialia, 2019, 8, 100490.	1.3	5
14	Multiferroic behaviour in B-site Cr-doped hexagonal YInO3 perovskites: Synthesis, structure and properties. Journal of Molecular Structure, 2019, 1185, 432-439.	1.8	4
15	A revisit to the effect of annealing temperature on magnetic properties of LaFe_{0.5}Mn_{0.5}O₃. Journal of Physics Condensed Matter, 2019, 31, 225801.	0.7	2
16	Topotactic Ion Exchange in a Three-Dimensional Close-Packed Trirutile Structure with an Octahedral Network. Inorganic Chemistry, 2019, 58, 2921-2924.	1.9	6
17	Synthesis, Characterization and Catalytic Activity of Quadruple Perovskite: CaCu_{3â€x}Mn_xTi_{4â€x}Mn_xO₁₂	1.7	11
18	Reentrant magnetism at the borderline between long-range antiferromagnetic order and spin-glass behavior in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>B</mml:mi></mml:math> -site disordered perovskite system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow	1.1	22

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19	pH-Mediated Collective and Selective Solar Photocatalysis by a Series of Layered Aurivillius Perovskites. ACS Omega, 2018, 3, 11104-11116.	1.6	31
20	Remarkable Ti-promotion in vanadium doped anatase titania for methylene blue adsorption in aqueous medium. Journal of Environmental Chemical Engineering, 2018, 6, 5212-5220.	3.3	6
21	Sunlight responsive new SillÃ©n-Aurivillius A1X1 hybrid layered oxyhalides with enhanced photocatalytic activity. Solar Energy Materials and Solar Cells, 2017, 161, 197-205.	3.0	23
22	Morphology-controlled green approach for synthesizing the hierarchical self-assembled 3D porous ZnO superstructure with excellent catalytic activity. Microporous and Mesoporous Materials, 2017, 239, 296-309.	2.2	47
23	Understanding the anomalous behavior of Vegard's law in Ce_{1â^'x}M_xO₂ (M = Sn and Ti; 0 < x â‰¤ 0.5) solid solutions. Physical Chemistry Chemical Physics, 2016, 18, 13974-13983.	1.3	21
24	Synthesis and application of green mixed-metal oxide nano-composite materials from solid waste for dye degradation. Journal of Environmental Management, 2016, 181, 146-156.	3.8	17
25	Selective liquid phase benzyl alcohol oxidation over Cu-loaded LaFeO₃ perovskite. RSC Advances, 2016, 6, 4469-4477.	1.7	23
26	Efficient COD Removal Coinciding with Dye Decoloration by Five-Layer Aurivillius Perovskites under Sunlight-Irradiation. ACS Sustainable Chemistry and Engineering, 2015, 3, 2900-2908.	3.2	28
27	Catalytic Degradation of Pyrrole in Aqueous Solution by Cu/SBA-15. International Journal of Chemical Reactor Engineering, 2015, 13, 437-445.	0.6	15
28	Treatment of fertilizer industry wastewater by catalytic peroxidation process using copper-loaded SBA-15. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2015, 50, 1468-1478.	0.9	10
29	Excellent Sun-Light-Driven Photocatalytic Activity by Aurivillius Layered Perovskites, Bi_{5â€“x}La_xTi₃FeO₁₅ (x = 1, 2). ACS Applied Materials & Interfaces, 2014, 6, 21000-21010.	4.0	91
30	Copper ion substituted hercynite (Cu0.03Fe0.97Al2O4): A highly active catalyst for liquid phase oxidation of cyclohexane. Applied Catalysis A: General, 2014, 485, 40-50.	2.2	16
31	Synthesis of different crystallographic Al₂O₃ nanomaterials from solid waste for application in dye degradation. RSC Advances, 2014, 4, 50801-50810.	1.7	37
32	Emerging concepts in solid-state hydrogen storage: the role of nanomaterials design. Energy and Environmental Science, 2012, 5, 5951.	15.6	130
33	Hydrogen: A future energy vector for sustainable development. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 539-558.	1.1	54
34	Hydrogen storage materials: present scenarios and future directions. Annual Reports on the Progress of Chemistry Section A, 2009, 105, 21.	0.8	87
35	La2MnVO6 double perovskite: a structural, magnetic and X-ray absorption investigation. Journal of Materials Chemistry, 2009, 19, 4382.	6.7	19
36	Synthesis, structure and magnetic properties of A2MnBâ€²O6 (A=Ca, Sr; Bâ€²=Sb, Ta) double perovskites. Journal of Solid State Chemistry, 2008, 181, 2325-2331.	1.4	51

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37	Synthesis, Structure, and Magnetic Properties of SrLaMnSbO₆: A New B-Site Ordered Double Perovskite. Chemistry of Materials, 2008, 20, 4653-4660.	3.2	28
38	Magnetic and electronic properties of double perovskites and estimation of their Curie temperatures byab initiocalculations. Physical Review B, 2008, 78, .	1.1	81
39	Study of Ba₃M^{II}M^{IV}WO₉ (M^{II} = Ca, Zn;) Tj ETQq1 1 0.784314 rgBT /C Inorganic Chemistry, 2007, 46, 6661-6667.	1.9	16
40	Synthesis, Crystal Structure, and Magnetic Properties of Sr1.31Co0.63Mn0.37O3: A Derivative of the Incommensurate Composite Hexagonal Perovskite Structure. Chemistry of Materials, 2007, 19, 6158-6167.	3.2	7
41	Crystal Structures of Ln₄Ni₃O₈ (Ln = La, Nd) Triple Layer Tâ€˜-type Nickelates. Inorganic Chemistry, 2007, 46, 10887-10891.	1.9	64
42	Heterovalent cation-substituted Aurivillius phases, Bi2SrNaNb2TaO12 and Bi2Sr2Nb3âˆ'xMxO12 (M=Zr,) Tj ETQq0 0 0 rgBT /Overlock 1 121, 112-119.	1.7	11
43	Bi4LnNb3O15 (Ln=La, Pr, Nd) and Bi4LaTa3O15: New intergrowth Aurivillius related phases. Materials Research Bulletin, 2005, 40, 920-927.	2.7	3
44	New Route to Ordered Double Perovskites: Synthesis of Rock Salt Oxides, Li4MWO6, and Their Transformation to Sr2MWO6 (M: Mg, Mn, Fe, Ni) via Metathesis.. ChemInform, 2005, 36, no.	0.1	0
45	New Route to Ordered Double Perovskites:â€‰Synthesis of Rock Salt Oxides, Li4MWO6, and Their Transformation to Sr2MWO6 (M = Mg, Mn, Fe, Ni) via Metathesis. Chemistry of Materials, 2005, 17, 2310-2316.	3.2	36
46	Insulatorâ€“metal transition and magnetoresistance of oxygen deficient La0.35Ca0.65MnOy. Journal of Magnetism and Magnetic Materials, 2004, 284, 35-42.	1.0	3
47	Hydrogen uptake by barium manganite at atmospheric pressure. Materials Research Bulletin, 2004, 39, 2257-2264.	2.7	24
48	From rocksalt to perovskite: a metathesis route for the synthesis of perovskite oxides of current interest. Journal of Materials Chemistry, 2004, 14, 1273.	6.7	43
49	Insulatorâ€“metal transition and magnetoresistance of La0.5Ca0.5MnOy induced by tuning the oxygen content. Journal of Applied Physics, 2002, 92, 5391-5394.	1.1	10
50	Electrical transport and magnetic properties ofLa0.5Ca0.5MnO3âˆ'ywith varying oxygen content. Physical Review B, 2002, 65, .	1.1	39
51	Synthesis and structure of La14V6CuO36.5: a transparent Cu(i) vanadate containing [OCuO]3âˆ'sticks. Journal of Materials Chemistry, 2002, 12, 3839-3842.	6.7	2
52	A novel metathesis route for the synthesis of La2CuO4 and its superconducting analogues: synthesis of a new lithium-substituted derivative of La2CuO4. Journal of Materials Chemistry, 2002, 12, 635-638.	6.7	5
53	Cation disorder and octahedral distortion control of internal electric field, band bending and carrier lifetime in Aurivillius perovskite solid solutions for enhanced photocatalytic activity. Materials Advances, 0, , .	2.6	18