Venkataramanan Mahalingam

List of Publications by Year in Descending Order

69 papers	2,739 citations	21 h-index	52 g-index
80 ext. papers	3,097 ext. citations	5.3 avg, IF	5.37 L-index

#	Paper	IF	Citations
69	-Aminobenzoic acid-capped hematite as an efficient nanocatalyst for solvent-free CO fixation under atmospheric pressure.. *Dalton Transactions*, **2022**,	4.3	1
68	Selective detection of iron (III) using salicylic acid capped Tb3+-doped CaF2 colloidal nanoparticles. *Journal of the Indian Chemical Society*, **2022**, 100452		
67	Ni0.85Se/MoSe2 Interfacial Structure: An Efficient Electrocatalyst for Alkaline Hydrogen Evolution Reaction. *ACS Applied Energy Materials*, **2021**, 4, 2828-2837	6.1	14
66	Rejuvenating the Geometric Electrocatalytic OER Performance of Crystalline Co O by Microstructure Engineering with Sulfate. *Chemistry - an Asian Journal*, **2021**, 16, 988-998	4.5	2
65	Engineering of oxygen vacancy as defect sites in silicates for removal of diverse organic pollutants and enhanced aromatic alcohol oxidation. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105134	6.8	4
64	Influence of Vanadate Structure on Electrochemical Surface Reconstruction and OER Performance of CoV2O6 and Co3V2O8. *ACS Applied Energy Materials*, **2021**, 4, 5381-5387	6.1	4
63	Design Principle of Monoclinic NiCoSe and CoSe Nanoparticles with Opposing Intrinsic and Geometric Electrocatalytic Activity toward the OER. *Inorganic Chemistry*, **2021**, 60, 9542-9551	5.1	6
62	Preparation of a portable calorimetry kit and one-step spectrophotometric nanomolar level detection of l-Histidine in serum and urine samples using sebacic acid capped silver nanoparticles. *Journal of Science: Advanced Materials and Devices*, **2021**, 6, 100-107	4.2	2
61	Gallic acid capped Tb3+-doped CaF2 nanocrystals: an efficient optical probe for the detection of carbonate and bicarbonate ions. *Journal of Materials Chemistry C*, **2021**, 9, 4267-4274	7.1	5
60	Nickel–cobalt oxalate as an efficient non-precious electrocatalyst for an improved alkaline oxygen evolution reaction. *Nanoscale Advances*, **2021**, 3, 3770-3779	5.1	2
59	Cr3+ Ion-Induced Phase Stabilization of 1T′-MoSe2 with Abundant Active Sites for Efficient Hydrogen Evolution Reaction. *ChemNanoMat*, **2021**, 7, 1063-1071	3.5	1
58	Ethylene glycol-mediated one-pot synthesis of Fe incorporated α-Ni(OH) nanosheets with enhanced intrinsic electrocatalytic activity and long-term stability for alkaline water oxidation. *Dalton Transactions*, **2021**, 50, 7305-7313	4.3	1
57	Highly Sensitive Upconverting Nanoplatform for Luminescent Thermometry from Ambient to Cryogenic Temperature. *ChemPhysChem*, **2020**, 21, 1731-1736	3.2	6
56	Gold incorporated hematite nanocatalyst for solvent-free CO2 fixation under atmospheric pressure. *New Journal of Chemistry*, **2020**, 44, 11887-11894	3.6	4
55	Ionic Liquid-Intercalated Metallic MoS2 as a Superior Electrode for Energy Storage Applications. *ChemNanoMat*, **2020**, 6, 685-695	3.5	14
54	Prudent electrochemical pretreatment to promote the OER by catalytically inert Iron incorporated metallic Ni nanowires synthesized via the non-classical growth mechanism. *Nanoscale Advances*, **2020**, 2, 1927-1938	5.1	4
53	Triazine-based Organic Polymer-catalysed Conversion of Epoxide to Cyclic Carbonate under Ambient CO Pressure. *Chemistry - an Asian Journal*, **2020**, 15, 1683-1687	4.5	7

52	Electrochemical Reconstruction of Zn0.3Co2.7(PO4)2·4H2O for Enhanced Water Oxidation Performance. *ACS Applied Energy Materials*, **2020**, 3, 12088-12098	6.1	4
51	Fe and W doped Bi2MoO6 nanoflakes: a promising material for efficient solar water splitting. *Sustainable Energy and Fuels*, **2020**, 4, 1507-1514	5.8	6
50	Inception of CoO as Microstructural Support to Promote Alkaline Oxygen Evolution Reaction for CoSe/CoSe Network. *Inorganic Chemistry*, **2020**, 59, 17326-17339	5.1	10
49	Defect induced "super mop"like behaviour of Eu3+-doped hierarchical Bi2SiO5 nanoparticles for improved catalytic and adsorptive behaviour. *Materials Advances*, **2020**, 1, 2019-2032	3.3	4
48	Competition between two- and three-photon upconversion in Er3+-doped microcrystals. *Journal of Luminescence*, **2020**, 227, 117542	3.8	2
47	MoO2 as a Propitious "Pore-Forming Additive" for Boosting the Water Oxidation Activity of Cobalt Oxalate Microrods. *Journal of Physical Chemistry C*, **2020**, 124, 20010-20020	3.8	8
46	Inception of molybdate as a "pore forming additive" to enhance the bifunctional electrocatalytic activity of nickel and cobalt based mixed hydroxides for overall water splitting. *Nanoscale*, **2019**, 11, 16898-16906	7.7	14
45	Efficient Photodegradation of Organic Pollutants By Using a Bi2CuO4/BiPO4 Heterojunction Photocatalyst. *ChemPhotoChem*, **2019**, 3, 204-210	3.3	2
44	4-Mercaptobenzoic acid capped terbium(III)-doped CaF nanocrystals: a fluorescent probe for nitroaromatic pollutants. *Mikrochimica Acta*, **2019**, 186, 389	5.8	8
43	Design of Lanthanide-Doped Colloidal Nanocrystals: Applications as Phosphors, Sensors, and Photocatalysts. *Langmuir*, **2019**, 35, 6211-6230	4	28
42	Classification of Transitions in Upconversion Luminescence of Lanthanides by Two-Dimensional Correlation Analysis. *Journal of Physical Chemistry A*, **2019**, 123, 2457-2461	2.8	3
41	Methylene Blue-Loaded Upconverting Hydrogel Nanocomposite: Potential Material for Near-Infrared Light-Triggered Photodynamic Therapy Application. *ACS Omega*, **2019**, 4, 3169-3177	3.9	7
40	Paradoxical Observance of "Intrinsic" and "Geometric" Oxygen Evolution Electrocatalysis in Phase-Tuned Cobalt Oxide/Hydroxide Nanoparticles. *ACS Applied Nano Materials*, **2019**, 2, 7957-7968	5.6	7
39	Efficient CO2 fixation under ambient pressure using poly(ionic liquid)-based heterogeneous catalysts. *Sustainable Energy and Fuels*, **2019**, 3, 935-941	5.8	25
38	Host sensitized intense infrared emissions from Ln3+ doped GdVO4 nanocrystals: ranging from 950 nm to 2000 nm. *Journal of Materials Chemistry C*, **2018**, 6, 4878-4886	7.1	15
37	Effect of Intrinsic Properties of Anions on the Electrocatalytic Activity of NiCoO and NiCoO S Grown by Chemical Bath Deposition. *ACS Omega*, **2018**, 3, 9066-9074	3.9	12
36	Ligand sensitized strong luminescence from Eu-doped LiYF nanocrystals: a photon down-shifting strategy to increase solar-to-current conversion efficiency. *Dalton Transactions*, **2017**, 46, 9646-9653	4.3	9
35	g-C3N4 and tetrabutylammonium bromide catalyzed efficient conversion of epoxide to cyclic carbonate under ambient conditions. *New Journal of Chemistry*, **2017**, 41, 14839-14842	3.6	26

34	Ce -Sensitized Tm /Mn -Doped NaYF Colloidal Nanocrystals: Intense Cool White Light from a Phosphor-Coated UV LED. *Chemistry - A European Journal*, **2017**, 23, 18134-18139	4.8	8
33	Strong UV Emission from Colloidal Eu2+-Doped BaSO4 Nanoparticles: A Material for Enhancing the Photocatalytic Activity of Carbon Dots. *ChemistrySelect*, **2017**, 2, 5970-5977	1.8	6
32	Glutathione-modified ultrasmall Ce3+and Tb3+-doped SrF2 nanocrystals for fluorescent determination of Hg(II) and Pb(II) ions. *Mikrochimica Acta*, **2016**, 183, 133-140	5.8	11
31	Double bond terminated Ln3+-doped LiYF4 nanocrystals with strong single band NIR emission: simple click chemistry route to make water dispersible nanocrystals with various functional groups. *New Journal of Chemistry*, **2016**, 40, 3080-3085	3.6	5
30	Enhanced visible and near infrared emissions via Ce(3+) to Ln(3+) energy transfer in Ln(3+)-doped CeF3 nanocrystals (Ln = Nd and Sm). *Dalton Transactions*, **2016**, 45, 78-84	4.3	25
29	Ce3+ sensitized bright white light emission from colloidal Ln3+ doped CaF2 nanocrystals for the development of transparent nanocomposites. *Journal of Materials Chemistry C*, **2016**, 4, 2289-2294	7.1	21
28	A Highly Efficient UV-Vis-NIR Active Ln(3+)-Doped BiPO4/BiVO4 Nanocomposite for Photocatalysis Application. *Langmuir*, **2016**, 32, 247-53	4	51
27	Synthesis of Hexagonal-Phase Eu3+-Doped GdF3 Nanocrystals above Room Temperature by Controlling the Viscosity of the Solvents. *European Journal of Inorganic Chemistry*, **2016**, 2016, 802-807	2.3	5
26	Near-infrared light triggered superior photocatalytic activity from MoS2-NaYF4:Yb(3+)/Er(3+) nanocomposites. *Dalton Transactions*, **2016**, 45, 12384-92	4.3	26
25	A Greener Approach towards Making Highly Luminescent Ln3+-Doped NaYF4 Nanoparticles with Ligand-Assisted Phase Control. *ChemistrySelect*, **2016**, 1, 4785-4793	1.8	7
24	Selective Detection of H2O2 Using para-Phenylenediamine Capped Ce3+/Tb3+-Doped NaYF4 Microrods. *ChemistrySelect*, **2016**, 1, 4927-4934	1.8	1
23	A Luminescent Nanocrystal Marker for the Selective and Ultrasensitive Detection of Explosives. *ChemNanoMat*, **2016**, 2, 805-809	3.5	7
22	Photoluminescence and photocatalytic activity of monodispersed colloidal ligand free Ln3+-doped PbMoO4 nanocrystals *RSC Advances*, **2015**, 5, 45611-45617	3.7	12
21	Highly Selective and Sensitive Detection of Cu(2+) Ions Using Ce(III)/Tb(III)-Doped SrF2 Nanocrystals as Fluorescent Probe. *ACS Applied Materials & Interfaces*, **2015**, 7, 25702-8	9.5	81
20	C-dot sensitized Eu3+ luminescence from Eu3+-doped LaF3 dot nanocomposites. *New Journal of Chemistry*, **2015**, 39, 106-109	3.6	20
19	Synthesis of Upconverting Hydrogel Nanocomposites Using Thiol-Ene Click Chemistry: Template for the Formation of Dendrimer-Like Gold Nanoparticle Assemblies. *Chemistry - A European Journal*, **2015**, 21, 16811-7	4.8	6
18	Strong Single-Band Blue Emission from Colloidal Ce(3+) /Tm(3+) -Doped NaYF4 Nanocrystals for Light-Emitting Applications. *ChemPhysChem*, **2015**, 16, 2312-6	3.2	13
17	Methyl oleate-capped upconverting nanocrystals: a simple and general ligand exchange strategy to render nanocrystals dispersible in aqueous and organic medium. *Langmuir*, **2015**, 31, 5521-8	4	15

16	Highly luminescent colloidal Eu(3)+-doped KZnF(3) nanoparticles for the selective and sensitive detection of Cu(II) ions. *Chemistry - A European Journal*, **2014**, 20, 3311-6	4.8	42
15	3,5-Dinitrobenzoic acid-capped upconverting nanocrystals for the selective detection of melamine. *ACS Applied Materials & Interfaces*, **2014**, 6, 7833-9	9.5	33
14	Bilayer stabilized Ln□+-doped CaMoO□nanocrystals with high luminescence quantum efficiency and photocatalytic properties. *Dalton Transactions*, **2014**, 43, 6623-30	4.3	37
13	Microwave synthesis, photoluminescence, and photocatalytic activity of PVA-functionalized Eu3+-doped BiOX (X = Cl, Br, I) nanoflakes. *Langmuir*, **2014**, 30, 1401-9	4	115
12	A resonance energy transfer approach for the selective detection of aromatic amino acids. *Journal of Materials Chemistry C*, **2014**, 2, 10157-10163	7.1	20
11	Ricinoleic Acid-Capped Upconverting Nanocrystals: An Ideal Capping Ligand to Render Nanocrystals Water Dispersible. *ChemPlusChem*, **2013**, 78, 1338-1342	2.8	9
10	Sub-5 nm Ln□+-doped BaLuF□nanocrystals: a platform to realize upconversion via interparticle energy transfer (IPET). *Advanced Materials*, **2013**, 25, 856-60	24	83
9	Tuning the crystalline phase and morphology of the YF3:Eu3+ microcrystals through fluoride source. *CrystEngComm*, **2013**, 15, 5750	3.3	28
8	The Active-Core/Active-Shell Approach: A Strategy to Enhance the Upconversion Luminescence in Lanthanide-Doped Nanoparticles. *Advanced Functional Materials*, **2009**, 19, 2924-2929	15.6	596
7	Colloidal Tm3+/Yb3+-Doped LiYF4 Nanocrystals: Multiple Luminescence Spanning the UV to NIR Regions via Low-Energy Excitation. *Advanced Materials*, **2009**, 21, 4025-4028	24	367
6	Sensitized Ce(3+) and Gd(3+) ultraviolet emissions by Tm(3+) in colloidal LiYF(4) nanocrystals. *Chemistry - A European Journal*, **2009**, 15, 9660-3	4.8	55
5	Controlled Synthesis and Water Dispersibility of Hexagonal Phase NaGdF4:Ho3+/Yb3+ Nanoparticles. *Chemistry of Materials*, **2009**, 21, 717-723	9.6	333
4	Structural and optical investigation of colloidal Ln3+/Yb3+ co-doped KY3F10nanocrystals. *Journal of Materials Chemistry*, **2009**, 19, 3149		76
3	Near-Infrared-to-Blue Upconversion in Colloidal BaYF5:Tm3+, Yb3+ Nanocrystals. *Chemistry of Materials*, **2009**, 21, 1847-1851	9.6	217
2	Bright White Upconversion Emission from Tm3+/Yb3+/Er3+-Doped Lu3Ga5O12 Nanocrystals. *Journal of Physical Chemistry C*, **2008**, 112, 17745-17749	3.8	136
1	Fe-Rich Ni0.06Fe0.94OOH Nanorods as Efficient Electrocatalysts for the Oxygen Evolution Reaction. *ACS Applied Energy Materials*,	6.1	1