

Venkataramanan Mahalingam

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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	The Active-Core/Active-Shell Approach: A Strategy to Enhance the Upconversion Luminescence in Lanthanide-Doped Nanoparticles. <i>Advanced Functional Materials</i> , 2009 , 19, 2924-2929	15.6	596
68	Colloidal Tm ³⁺ /Yb ³⁺ -Doped LiYF ₄ Nanocrystals: Multiple Luminescence Spanning the UV to NIR Regions via Low-Energy Excitation. <i>Advanced Materials</i> , 2009 , 21, 4025-4028	24	367
67	Controlled Synthesis and Water Dispersibility of Hexagonal Phase NaGdF ₄ :Ho ³⁺ /Yb ³⁺ Nanoparticles. <i>Chemistry of Materials</i> , 2009 , 21, 717-723	9.6	333
66	Near-Infrared-to-Blue Upconversion in Colloidal BaYF ₅ :Tm ³⁺ , Yb ³⁺ Nanocrystals. <i>Chemistry of Materials</i> , 2009 , 21, 1847-1851	9.6	217
65	Bright White Upconversion Emission from Tm ³⁺ /Yb ³⁺ /Er ³⁺ -Doped Lu ₃ Ga ₅ O ₁₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17745-17749	3.8	136
64	Microwave synthesis, photoluminescence, and photocatalytic activity of PVA-functionalized Eu ³⁺ -doped BiOX (X = Cl, Br, I) nanoflakes. <i>Langmuir</i> , 2014 , 30, 1401-9	4	115
63	Sub-5 nm Ln ³⁺ -doped BaLuF ₇ nanocrystals: a platform to realize upconversion via interparticle energy transfer (IPET). <i>Advanced Materials</i> , 2013 , 25, 856-60	24	83
62	Highly Selective and Sensitive Detection of Cu(2+) Ions Using Ce(III)/Tb(III)-Doped SrF ₂ Nanocrystals as Fluorescent Probe. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25702-8	9.5	81
61	Structural and optical investigation of colloidal Ln ³⁺ /Yb ³⁺ co-doped KY ₃ F ₁₀ nanocrystals. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3149		76
60	Sensitized Ce(3+) and Gd(3+) ultraviolet emissions by Tm(3+) in colloidal LiYF(4) nanocrystals. <i>Chemistry - A European Journal</i> , 2009 , 15, 9660-3	4.8	55
59	A Highly Efficient UV-Vis-NIR Active Ln(3+)-Doped BiPO ₄ /BiVO ₄ Nanocomposite for Photocatalysis Application. <i>Langmuir</i> , 2016 , 32, 247-53	4	51
58	Highly luminescent colloidal Eu(3+)-doped KZnF(3) nanoparticles for the selective and sensitive detection of Cu(II) ions. <i>Chemistry - A European Journal</i> , 2014 , 20, 3311-6	4.8	42
57	Bilayer stabilized Ln ³⁺ -doped CaMoO ₇ nanocrystals with high luminescence quantum efficiency and photocatalytic properties. <i>Dalton Transactions</i> , 2014 , 43, 6623-30	4.3	37
56	3,5-Dinitrobenzoic acid-capped upconverting nanocrystals for the selective detection of melamine. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7833-9	9.5	33
55	Design of Lanthanide-Doped Colloidal Nanocrystals: Applications as Phosphors, Sensors, and Photocatalysts. <i>Langmuir</i> , 2019 , 35, 6211-6230	4	28
54	Tuning the crystalline phase and morphology of the YF ₃ :Eu ³⁺ microcrystals through fluoride source. <i>CrystEngComm</i> , 2013 , 15, 5750	3.3	28
53	g-C ₃ N ₄ and tetrabutylammonium bromide catalyzed efficient conversion of epoxide to cyclic carbonate under ambient conditions. <i>New Journal of Chemistry</i> , 2017 , 41, 14839-14842	3.6	26

52	Near-infrared light triggered superior photocatalytic activity from MoS ₂ -NaYF ₄ :Yb(3+)/Er(3+) nanocomposites. <i>Dalton Transactions</i> , 2016 , 45, 12384-92	4.3	26
51	Enhanced visible and near infrared emissions via Ce(3+) to Ln(3+) energy transfer in Ln(3+)-doped CeF ₃ nanocrystals (Ln = Nd and Sm). <i>Dalton Transactions</i> , 2016 , 45, 78-84	4.3	25
50	Efficient CO ₂ fixation under ambient pressure using poly(ionic liquid)-based heterogeneous catalysts. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 935-941	5.8	25
49	Ce ³⁺ sensitized bright white light emission from colloidal Ln ³⁺ doped CaF ₂ nanocrystals for the development of transparent nanocomposites. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2289-2294	7.1	21
48	C-dot sensitized Eu ³⁺ luminescence from Eu ³⁺ -doped LaF ₃ ⊃ dot nanocomposites. <i>New Journal of Chemistry</i> , 2015 , 39, 106-109	3.6	20
47	A resonance energy transfer approach for the selective detection of aromatic amino acids. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 10157-10163	7.1	20
46	Host sensitized intense infrared emissions from Ln ³⁺ doped GdVO ₄ nanocrystals: ranging from 950 nm to 2000 nm. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4878-4886	7.1	15
45	Methyl oleate-capped upconverting nanocrystals: a simple and general ligand exchange strategy to render nanocrystals dispersible in aqueous and organic medium. <i>Langmuir</i> , 2015 , 31, 5521-8	4	15
44	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. <i>Nanoscale</i> , 2019 , 11, 16896-16906	7.7	14
43	Ionic Liquid-Intercalated Metallic MoS ₂ as a Superior Electrode for Energy Storage Applications. <i>ChemNanoMat</i> , 2020 , 6, 685-695	3.5	14
42	Ni _{0.85} Se/MoSe ₂ Interfacial Structure: An Efficient Electrocatalyst for Alkaline Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2828-2837	6.1	14
41	Strong Single-Band Blue Emission from Colloidal Ce(3+) /Tm(3+) -Doped NaYF ₄ Nanocrystals for Light-Emitting Applications. <i>ChemPhysChem</i> , 2015 , 16, 2312-6	3.2	13
40	Photoluminescence and photocatalytic activity of monodispersed colloidal ligand free Ln ³⁺ -doped PbMoO ₄ nanocrystals. <i>RSC Advances</i> , 2015 , 5, 45611-45617	3.7	12
39	Effect of Intrinsic Properties of Anions on the Electrocatalytic Activity of NiCoO and NiCoO S Grown by Chemical Bath Deposition. <i>ACS Omega</i> , 2018 , 3, 9066-9074	3.9	12
38	Glutathione-modified ultrasmall Ce ³⁺ and Tb ³⁺ -doped SrF ₂ nanocrystals for fluorescent determination of Hg(II) and Pb(II) ions. <i>Mikrochimica Acta</i> , 2016 , 183, 133-140	5.8	11
37	Inception of CoO as Microstructural Support to Promote Alkaline Oxygen Evolution Reaction for CoSe/CoSe Network. <i>Inorganic Chemistry</i> , 2020 , 59, 17326-17339	5.1	10
36	Ligand sensitized strong luminescence from Eu-doped LiYF ₄ nanocrystals: a photon down-shifting strategy to increase solar-to-current conversion efficiency. <i>Dalton Transactions</i> , 2017 , 46, 9646-9653	4.3	9
35	Ricinoleic Acid-Capped Upconverting Nanocrystals: An Ideal Capping Ligand to Render Nanocrystals Water Dispersible. <i>ChemPlusChem</i> , 2013 , 78, 1338-1342	2.8	9

34	4-Mercaptobenzoic acid capped terbium(III)-doped CaF nanocrystals: a fluorescent probe for nitroaromatic pollutants. <i>Mikrochimica Acta</i> , 2019 , 186, 389	5.8	8
33	Ce -Sensitized Tm /Mn -Doped NaYF Colloidal Nanocrystals: Intense Cool White Light from a Phosphor-Coated UV LED. <i>Chemistry - A European Journal</i> , 2017 , 23, 18134-18139	4.8	8
32	MoO ₂ as a Propitious Pore-Forming Additive For Boosting the Water Oxidation Activity of Cobalt Oxalate Microrods. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 20010-20020	3.8	8
31	Triazine-based Organic Polymer-catalysed Conversion of Epoxide to Cyclic Carbonate under Ambient CO Pressure. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 1683-1687	4.5	7
30	A Greener Approach towards Making Highly Luminescent Ln ³⁺ -Doped NaYF ₄ Nanoparticles with Ligand-Assisted Phase Control. <i>ChemistrySelect</i> , 2016 , 1, 4785-4793	1.8	7
29	A Luminescent Nanocrystal Marker for the Selective and Ultrasensitive Detection of Explosives. <i>ChemNanoMat</i> , 2016 , 2, 805-809	3.5	7
28	Methylene Blue-Loaded Upconverting Hydrogel Nanocomposite: Potential Material for Near-Infrared Light-Triggered Photodynamic Therapy Application. <i>ACS Omega</i> , 2019 , 4, 3169-3177	3.9	7
27	Paradoxical Observance of Intrinsic and Geometric Oxygen Evolution Electrocatalysis in Phase-Tuned Cobalt Oxide/Hydroxide Nanoparticles. <i>ACS Applied Nano Materials</i> , 2019 , 2, 7957-7968	5.6	7
26	Highly Sensitive Upconverting Nanoplatform for Luminescent Thermometry from Ambient to Cryogenic Temperature. <i>ChemPhysChem</i> , 2020 , 21, 1731-1736	3.2	6
25	Strong UV Emission from Colloidal Eu ²⁺ -Doped BaSO ₄ Nanoparticles: A Material for Enhancing the Photocatalytic Activity of Carbon Dots. <i>ChemistrySelect</i> , 2017 , 2, 5970-5977	1.8	6
24	Synthesis of Upconverting Hydrogel Nanocomposites Using Thiol-Ene Click Chemistry: Template for the Formation of Dendrimer-Like Gold Nanoparticle Assemblies. <i>Chemistry - A European Journal</i> , 2015 , 21, 16811-7	4.8	6
23	Fe and W doped Bi ₂ MoO ₆ nanoflakes: a promising material for efficient solar water splitting. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1507-1514	5.8	6
22	Design Principle of Monoclinic NiCoSe and CoSe Nanoparticles with Opposing Intrinsic and Geometric Electrocatalytic Activity toward the OER. <i>Inorganic Chemistry</i> , 2021 , 60, 9542-9551	5.1	6
21	Double bond terminated Ln ³⁺ -doped LiYF ₄ nanocrystals with strong single band NIR emission: simple click chemistry route to make water dispersible nanocrystals with various functional groups. <i>New Journal of Chemistry</i> , 2016 , 40, 3080-3085	3.6	5
20	Synthesis of Hexagonal-Phase Eu ³⁺ -Doped GdF ₃ Nanocrystals above Room Temperature by Controlling the Viscosity of the Solvents. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 802-807	2.3	5
19	Gallic acid capped Tb ³⁺ -doped CaF ₂ nanocrystals: an efficient optical probe for the detection of carbonate and bicarbonate ions. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4267-4274	7.1	5
18	Gold incorporated hematite nanocatalyst for solvent-free CO ₂ fixation under atmospheric pressure. <i>New Journal of Chemistry</i> , 2020 , 44, 11887-11894	3.6	4
17	Prudent electrochemical pretreatment to promote the OER by catalytically inert Iron incorporated metallic Ni nanowires synthesized via the non-classical growth mechanism. <i>Nanoscale Advances</i> , 2020 , 2, 1927-1938	5.1	4

16	Electrochemical Reconstruction of $\text{Zn}_{0.3}\text{Co}_{2.7}(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}$ for Enhanced Water Oxidation Performance. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12088-12098	6.1	4
15	Defect induced Super moplike behaviour of Eu^{3+} -doped hierarchical Bi_2SiO_5 nanoparticles for improved catalytic and adsorptive behaviour. <i>Materials Advances</i> , 2020 , 1, 2019-2032	3.3	4
14	Engineering of oxygen vacancy as defect sites in silicates for removal of diverse organic pollutants and enhanced aromatic alcohol oxidation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105134	6.8	4
13	Influence of Vanadate Structure on Electrochemical Surface Reconstruction and OER Performance of CoV_2O_6 and $\text{Co}_3\text{V}_2\text{O}_8$. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5381-5387	6.1	4
12	Classification of Transitions in Upconversion Luminescence of Lanthanides by Two-Dimensional Correlation Analysis. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 2457-2461	2.8	3
11	Efficient Photodegradation of Organic Pollutants By Using a $\text{Bi}_2\text{CuO}_4/\text{BiPO}_4$ Heterojunction Photocatalyst. <i>ChemPhotoChem</i> , 2019 , 3, 204-210	3.3	2
10	Competition between two- and three-photon upconversion in Er^{3+} -doped microcrystals. <i>Journal of Luminescence</i> , 2020 , 227, 117542	3.8	2
9	Rejuvenating the Geometric Electrocatalytic OER Performance of Crystalline Co_2O_3 by Microstructure Engineering with Sulfate. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 988-998	4.5	2
8	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. <i>Journal of Science: Advanced Materials and Devices</i> , 2021 , 6, 100-107	4.2	2
7	NickelCobalt oxalate as an efficient non-precious electrocatalyst for an improved alkaline oxygen evolution reaction. <i>Nanoscale Advances</i> , 2021 , 3, 3770-3779	5.1	2
6	-Aminobenzoic acid-capped hematite as an efficient nanocatalyst for solvent-free CO fixation under atmospheric pressure.. <i>Dalton Transactions</i> , 2022 ,	4.3	1
5	Fe-Rich $\text{Ni}_{0.06}\text{Fe}_{0.94}\text{OOH}$ Nanorods as Efficient Electrocatalysts for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> ,	6.1	1
4	Selective Detection of H_2O_2 Using para-Phenylenediamine Capped $\text{Ce}^{3+}/\text{Tb}^{3+}$ -Doped NaYF_4 Microrods. <i>ChemistrySelect</i> , 2016 , 1, 4927-4934	1.8	1
3	Cr^{3+} Ion-Induced Phase Stabilization of $1\text{T}'\text{MoSe}_2$ with Abundant Active Sites for Efficient Hydrogen Evolution Reaction. <i>ChemNanoMat</i> , 2021 , 7, 1063-1071	3.5	1
2	Ethylene glycol-mediated one-pot synthesis of Fe incorporated $\text{Ni}(\text{OH})_2$ nanosheets with enhanced intrinsic electrocatalytic activity and long-term stability for alkaline water oxidation. <i>Dalton Transactions</i> , 2021 , 50, 7305-7313	4.3	1
1	Selective detection of iron (III) using salicylic acid capped Tb^{3+} -doped CaF_2 colloidal nanoparticles. <i>Journal of the Indian Chemical Society</i> , 2022 , 100452		