

Paulraj Arunkumar

List of Publications by Year in descending order

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38
papers

2,084
citations

304602

22
h-index

315616

38
g-index

39
all docs

39
docs citations

39
times ranked

2599
citing authors

#	ARTICLE	IF	CITATIONS
1	A zero-thermal-quenching phosphor. <i>Nature Materials</i> , 2017, 16, 543-550.	13.3	748
2	Hydrophobic Organic Skin as a Protective Shield for Moisture-Sensitive Phosphor-Based Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7232-7240.	4.0	121
3	A New Blue-Emitting Oxohalide Phosphor $\text{Sr}_4\text{OCl}_6:\text{Eu}^{2+}$ for Thermally Stable, Efficient White-Light-Emitting Devices under Near-UV. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2686-2692.	1.5	118
4	TiNb ₂ O ₇ /Graphene hybrid material as high performance anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 176, 285-292.	2.6	99
5	Smart design to resolve spectral overlapping of phosphor-in-glass for high-powered remote-type white light-emitting devices. <i>Optics Letters</i> , 2014, 39, 762.	1.7	94
6	Colloidal Organolead Halide Perovskite with a High Mn Solubility Limit: A Step Toward Pb-Free Luminescent Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4161-4166.	2.1	90
7	Nb ₂ O ₅ /graphene nanocomposites for electrochemical energy storage. <i>RSC Advances</i> , 2015, 5, 59997-60004.	1.7	63
8	Structure-property relations in hexagonal and monoclinic BiPO ₄ :Eu ³⁺ nanoparticles synthesized by polyol-mediated method. <i>RSC Advances</i> , 2012, 2, 1477-1485.	1.7	61
9	Probing molecule-like isolated octahedra via phase stabilization of zero-dimensional cesium lead halide nanocrystals. <i>Nature Communications</i> , 2018, 9, 4691.	5.8	56
10	Co ₃ Se ₄ nanosheets embedded on N-CNT as an efficient electroactive material for hydrogen evolution and supercapacitor applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 65, 62-71.	2.9	47
11	A Complementary Co-Ni Phosphide/Bimetallic Alloy-Interspersed N-Doped Graphene Electrocatalyst for Overall Alkaline Water Splitting. <i>ChemSusChem</i> , 2021, 14, 1921-1935.	3.6	42
12	Scanty graphene-driven phase control and heteroatom functionalization of ZIF-67-derived CoP-draped N-doped carbon/graphene as a hybrid electrode for high-performance asymmetric supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 1136-1148.	5.0	41
13	Composition engineering of ZIF-derived cobalt phosphide/cobalt monoxide heterostructures for high-performance asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 557-570.	5.0	40
14	Influence of Ti ⁴⁺ on the Electrochemical Performance of Li-Rich Layered Oxides - High Power and Long Cycle Life of Li ₂ Ru _{1-x} Ti _x O ₃ Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7118-7128.	4.0	34
15	Versatile Ca ₄ F ₂ Si ₂ O ₇ Host from Defect-Induced Host Emission to White-Light-Emitting Ce ³⁺ -Doped Ca ₄ F ₂ Si ₂ O ₇ Phosphor for Near-UV Solid-State Lighting. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4495-4503.	1.5	32
16	Improved electrochemical reversibility of over-lithiated layered Li ₂ RuO ₃ cathodes: Understanding aliovalent Co ³⁺ substitution with excess lithium. <i>Journal of Power Sources</i> , 2016, 324, 428-438.	4.0	30
17	High performance, 3D-hierarchical CoS ₂ /CoSe@C nanohybrid as an efficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155537.	2.8	30
18	Mesoporous nitrogen-doped carbon@graphene nanosheets as ultra-stable anode for lithium-ion batteries - Melamine as surface modifier than nitrogen source. <i>Electrochimica Acta</i> , 2019, 318, 290-301.	2.6	29

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19	A Highly Effective, Stable Oxygen Evolution Catalyst Derived from Transition Metal Selenides and Phosphides. Particle and Particle Systems Characterization, 2018, 35, 1800135.	1.2	28
20	A hexagonal 2D ZIF-Co-L variant: Unusual role of graphene oxide on the water-regulated morphology of ZIF hybrid and their derived Co@N-doped carbon electrocatalyst for hydrogen evolution reaction. Chemical Engineering Journal, 2021, 426, 131270.	6.6	27
21	Photoluminescence Efficiencies of Nanocrystalline versus Bulk Y ₂ O ₃ : Eu Phosphor-Revisited. Journal of the American Ceramic Society, 2011, 94, 1627-1633.	1.9	25
22	Facile fabrication of moisture resistance and thermally stable SrGa ₂ S ₄ :Eu ²⁺ phosphor-in-glass microcubes for white LED. Ceramics International, 2015, 41, 5200-5204.	2.3	25
23	Effect of synthesis temperature on the structural defects of integrated spinel-layered Li _{1.2} Mn _{0.75} Ni _{0.25} O ₂ : a strategy to develop high-capacity cathode materials for Li-ion batteries. Journal of Materials Chemistry A, 2017, 5, 15730-15742.	5.2	20
24	Tuning the diurnal natural daylight with phosphor converted white LED – Advent of new phosphor blend composition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 193, 4-12.	1.7	18
25	Bimetallic Layered Hydroxide Nitrate@Graphene Oxide as an Electrocatalyst for Efficient Non-Enzymatic Glucose Sensors: Tuning Sensitivity by Hydroxide-Regulated M ₂ (OH) ₄ (A ⁿ⁺) ₂ Phases Derived from Solvent Engineering. ACS Sustainable Chemistry and Engineering, 2022, 10, 1689-1701.	3.2	18
26	Effects of excess Li on the structure and electrochemical performance of Li _{1+z} MnTiO ₄ cathode for Li-ion batteries. Electrochimica Acta, 2017, 225, 458-466.	2.6	17
27	Impact of an Incompatible Atomic Nickel-Incorporated Metal-Organic Framework on Phase Evolution and Electrocatalytic Activity of Ni-Doped Cobalt Phosphide for the Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2022, 5, 2975-2992.	2.5	17
28	White light emission in alkali metal ion co-doped single host lattice phosphor Sr ₃ B ₂ O ₆ :Ce ³⁺ ,Eu ²⁺ ,A ⁺ [A=Li, Na and K]. Ceramics International, 2015, 41, 3497-3501.	2.3	16
29	Engineering the Lattice Site Occupancy of Apatite-Structure Phosphors for Effective Broad-Band Emission through Cation Pairing. Inorganic Chemistry, 2017, 56, 5696-5703.	1.9	16
30	High-performance spinel-rich Li _{1.5} MnTiO ₄ ultralong nanofibers as cathode materials for Li-ion batteries. Scientific Reports, 2017, 7, 45579.	1.6	16
31	Self-Supportive Bimetallic Selenide Heteronanostructures as High-Efficiency Electro(pre)catalysts for Water Oxidation. ACS Sustainable Chemistry and Engineering, 2021, 9, 13114-13123.	3.2	15
32	High capacity spinel@layered Li _{1.5} MnTiO ₄ as thermally stable core-shell-driven cathode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 704, 459-468.	2.8	13
33	Preparation of catalytic films of platinum on Au substrates modified by self-assembled PAMAM dendrimer monolayers. Applied Catalysis B: Environmental, 2009, 88, 557-563.	10.8	10
34	A nanosheet phosphor of double-layered perovskite with unusual intranosheet site activator concentration. Chemical Engineering Journal, 2019, 375, 122044.	6.6	9
35	Self-Assembled Monolayers As Nucleating Centers for the Preparation of Multilayers of Catalytically Active Pt Films. Journal of Physical Chemistry C, 2009, 113, 8378-8386.	1.5	8
36	A Phosphosilicate Compound, NaCa ₃ PSi ₈ : Structure Solution and Luminescence Properties. Inorganic Chemistry, 2017, 56, 15130-15137.	1.9	6

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37	Structural and Optical Properties of Yellow-Emitting CaGd ₂ ZrSc(AlO ₄) ₃ :Ce ³⁺ Phosphor for Solid-State Lighting. Journal of the Korean Ceramic Society, 2017, 54, 422-428.	1.1	2
38	Reply to the Comment on "Photoluminescence Efficiencies of Nanocrystalline Versus Bulk Y ₂ O ₃ :Eu Phosphor-Revisited". Journal of the American Ceramic Society, 2011, 94, 2696-2697.	1.9	0