Saju Pillai

List of Publications by Year
in descending order

51 papers	1,135 citations	361413 20 h-index	414414 32 g-index
52 all docs	52 docs citations	52 times ranked	1742 citing authors

#	Article	IF	Citations
1	Tailored synthesis of ultra-stable Au@Pd nanoflowers with enhanced catalytic properties using cellulose nanocrystals. Carbohydrate Polymers, 2022, 292, 119723.	10.2	3
2	Emerging ternary nanocomposite of rGO draped palladium oxide/polypyrrole for high performance supercapacitors. Journal of Alloys and Compounds, 2021, 855, 157481.	5.5	27
3	Core-shell based responsive colloidal photonic crystals for facile, rapid, visual detection of acetone. Reactive and Functional Polymers, 2021, 158, 104779.	4.1	9
4	Hydrophilic 3D Interconnected Network of Bacterial Nanocellulose/Black Titania Photothermal Foams as an Efficient Interfacial Solar Evaporator. ACS Applied Bio Materials, 2021, 4, 4373-4383.	4.6	21
5	Active bayerite underpinned Ag2O/Ag: an efficient antibacterial nanohybrid combating microbial contamination. Metallomics, 2021, 13, .	2.4	6
6	Cellulose nanocrystals directed in-situ assembly of Au@Ag nanostructures with multifunctional activities. Microchemical Journal, 2021, 168, 106393.	4.5	2
7	Sulphur-doped graphene quantum dot based fluorescent turn-on aptasensor for selective and ultrasensitive detection of omethoate. Analytica Chimica Acta, 2021, 1181, 338893.	5.4	34
8	Fluorescent turn-off sensor based on sulphur-doped graphene quantum dots in colloidal and film forms for the ultrasensitive detection of carbamate pesticides. Microchemical Journal, 2020, 157, 104971.	4.5	52
9	Nickel electrodeposited textiles as wearable radar invisible fabrics. Journal of Industrial and Engineering Chemistry, 2020, 88, 196-206.	5.8	14
10	Clean Water from Air Utilizing Black TiO₂-Based Photothermal Nanocomposite Sheets. ACS Applied Nano Materials, 2020, 3, 6827-6835.	5.0	21
11	Nanocellulose-silver ensembles for ultrasensitive SERS: An investigation on the role of nanocellulose fibers in the generation of high-density hotspots. Applied Materials Today, 2020, 20, 100672.	4.3	15
12	Direct Visualization of Crystalline Domains in Carboxylated Nanocellulose Fibers. ACS Omega, 2020, 5, 12136-12143.	3.5	3
13	Polyaniline-cobalt oxide nano shrubs based electrodes for supercapacitors with enhanced electrochemical performance. Electrochimica Acta, 2019, 324, 134876.	5.2	14
14	Ag loaded B-doped-g C3N4 nanosheet with efficient properties for photocatalysis. Journal of Environmental Management, 2019, 247, 57-66.	7.8	43
15	Cucurbit[7]uril encapsulated dye-sensitized enhanced solar photocatalysis using positively charged sheet-like anatase TiO2 mesocrystals. Applied Surface Science, 2019, 488, 911-920.	6.1	16
16	Photonic band gap effect and dye-encapsulated cucurbituril-triggered enhanced fluorescence using monolithic colloidal photonic crystals. New Journal of Chemistry, 2019, 43, 16264-16272.	2.8	8
17	Polyol derived Ni and NiFe alloys for effective shielding of electromagnetic interference. Materials Chemistry Frontiers, 2018, 2, 1829-1841.	5.9	63
18	Effect of Adhesion Between Submicron Filler Particles and a Polymeric Matrix on the Structure and Mechanical Properties of Epoxy-Resin-Based Compositions. Mechanics of Composite Materials, 2017, 53, 117-122.	1.4	8

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19	Thermophysical and Microwave Shielding Properties of La0.5Sr0.5CoO3â^Ï´ and its Composite with Epoxy. Journal of Electronic Materials, 2017, 46, 5158-5167.	2.2	11
20	Screen printed silver patterns on La 0.5 Sr 0.5 CoO 3â^Ï´ - Epoxy composite as a strategy for many-fold increase in EMI shielding. Surface and Coatings Technology, 2017, 330, 34-41.	4.8	22
21	Surface modification induced enhanced CO₂ sorption in cucurbit[6]uril, an organic porous material. Physical Chemistry Chemical Physics, 2017, 19, 25564-25573.	2.8	15
22	Rapid, Acid-Free Synthesis of High-Quality Graphene Quantum Dots for Aggregation Induced Sensing of Metal Ions and Bioimaging. ACS Omega, 2017, 2, 8051-8061.	3.5	75
23	Low Temperature Synthesis of High Energy Facets Exposed Sheetâ€“like Anatase TiO₂ Mesocrystals Show Reduced e^{â^'}/h⁺ Pair Recombination Rates and Enhanced Photoactivity. ChemistrySelect, 2016, 1, 6221-6229.	1.5	7
24	Microscopic analysis of polymer honeycomb thin film studied by PeakForce TUNA for organic solar cell application. Journal of Renewable and Sustainable Energy, 2016, 8, 023703.	2.0	4
25	TEMPO-Oxidized Nanocellulose Fiber-Directed Stable Aqueous Suspension of Plasmonic Flower-like Silver Nanoconstructs for Ultra-Trace Detection of Analytes. ACS Applied Materials & Interfaces, 2016, 8, 29242-29251.	8.0	35
26	Synthesis of cyanopyridine based conjugated polymer. Data in Brief, 2016, 7, 1314-1320.	1.0	5
27	Cyanopyridine based conjugated polymer-synthesis and characterization. Polymer, 2015, 78, 22-30.	3.8	21
28	Mechanical characterization and fractography of glass fiber/polyamide (PA6) composites. Polymer Composites, 2015, 36, 834-853.	4.6	15
29	SELECTIVE CONTROL OF CALCIUM CARBONATE CRYSTALS MORPHOLOGIES USING SULFONATED POLYMER AS ADDITIVE. Journal of the Chilean Chemical Society, 2014, 59, 2308-2310.	1.2	1
30	Photoluminescent, self-cleaning titanium oxide nanocomposites with multifunctional properties. RSC Advances, 2014, 4, 61727-61735.	3.6	10
31	Effect of Polymer Form and its Consolidation on Mechanical Properties and Quality of Glass/PBT Composites. Applied Composite Materials, 2014, 21, 301-324.	2.5	6
32	Novel multifunctional titaniaâ€“silicaâ€“lanthanum phosphate nanocomposite coatings through an all aqueous solâ€“gel process. Dalton Transactions, 2013, 42, 4602.	3.3	16
33	Hierarchical ordering of amyloid fibrils on the mica surface. Nanoscale, 2013, 5, 4816.	5.6	21
34	Ultrasound Effects on Assembly of Glucagon Fibrils. Integrated Ferroelectrics, 2012, 136, 1-8.	0.7	2
35	The opposite effects of Cu(ii) and Fe(iii) on the assembly of glucagon amyloid fibrils. RSC Advances, 2012, 2, 5418.	3.6	4
36	Biotemplated fabrication of size controlled palladium nanoparticle chains. Journal of Materials Chemistry, 2012, 22, 8862.	6.7	18

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37	Multicomponent colloidal crystals that are tunable over large areas. Soft Matter, 2011, 7, 3290.	2.7	27
38	Large-Area Protein Patterns Generated by Ordered Binary Colloidal Assemblies as Templates. ACS Nano, 2011, 5, 3542-3551.	14.6	39
39	Assembly of glucagon (proto)fibrils by longitudinal addition of oligomers. Nanoscale, 2011, 3, 3049.	5.6	10
40	Biofilm retention on surfaces with variable roughness and hydrophobicity. Biofouling, 2011, 27, 111-121.	2.2	52
41	Layerâ€byâ€Layer Growth of Multicomponent Colloidal Crystals Over Large Areas. Advanced Functional Materials, 2011, 21, 2556-2563.	14.9	45
42	Highly Ordered Mixed Protein Patterns Over Large Areas from Selfâ€Assembly of Binary Colloids. Advanced Materials, 2011, 23, 1519-1523.	21.0	52
43	Controlled growth and formation of SAMs investigated by atomic force microscopy. Ultramicroscopy, 2009, 109, 161-166.	1.9	12
44	Temperature-induced formation of strong gels of acrylamide-based polyelectrolytes. Journal of Colloid and Interface Science, 2009, 337, 46-53.	9.4	9
45	Using a Hydrazone-Protected Benzenediazonium Salt to Introduce a Near-Monolayer of Benzaldehyde on Glassy Carbon Surfaces. Journal of the American Chemical Society, 2009, 131, 4928-4936.	13.7	83
46	Preventing Protein Adsorption from a Range of Surfaces Using an Aqueous Fish Protein Extract. Biomacromolecules, 2009, 10, 2759-2766.	5.4	12
47	Effect of lateral morphology formation of polymer blend towards patterning silane-based SAMs using selective dissolution method. Ultramicroscopy, 2008, 108, 458-464.	1.9	2
48	Divalent Cation-Induced Variations in Polyelectrolyte Conformation and Controlling Calcite Morphologies: Direct Observation of the Phase Transition by Atomic Force Microscopy. Journal of the American Chemical Society, 2008, 130, 13074-13078.	13.7	36
49	Nanoparticles of amorphous calcium carbonate by miniemulsion: synthesis and mechanism. CrystEngComm, 2008, 10, 865.	2.6	43
50	Water-Soluble Terpolymer Directs the Hollow Triangular Cones of Packed Calcite Needles. Crystal Growth and Design, 2007, 7, 215-217.	3.0	30
51	Ordering of Binary Polymeric Nanoparticles on Hydrophobic Surfaces Assembled from Low Volume Fraction Dispersions. Journal of the American Chemical Society, 2007, 129, 13390-13391.	13.7	36