

Sreekumar K

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	First Example of Organocatalysis by Polystyrene- ϵ -Supported PAMAM Dendrimers: Highly Efficient and Reusable Catalyst for Knoevenagel Condensations. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 4763-4768.	2.4	73
2	Clay supported titanium catalyst for the solvent free synthesis of tetrasubstituted imidazoles and benzimidazoles. <i>Journal of Molecular Catalysis A</i> , 2013, 376, 34-39.	4.8	37
3	A New Green and Efficient Brønsted: Lewis Acidic DES for Pyrrole Synthesis. <i>Catalysis Letters</i> , 2018, 148, 2359-2372.	2.6	35
4	Neoteric deep eutectic solvents: history, recent developments, and catalytic applications. <i>Soft Matter</i> , 2022, 18, 2695-2721.	2.7	31
5	Ring opening of epoxides catalysed by poly(amidoamine) dendrimer supported on crosslinked polystyrene. <i>Polymer</i> , 2008, 49, 5233-5240.	3.8	28
6	Polystyrene-supported poly(amidoamine) dendrimer- ϵ -manganese complex: Synthesis, characterization and catalysis. <i>Applied Catalysis A: General</i> , 2009, 353, 80-86.	4.3	27
7	Isosorbide based chiral polyurethanes: optical and thermal studies. <i>Journal of Materials Science</i> , 2010, 45, 1912-1920.	3.7	27
8	Facile synthesis of pyranopyrazoles and 3,4-dihydropyrimidin-2(1H)-ones by a Ti-grafted polyamidoamine dendritic silica hybrid catalyst via a dual activation route. <i>RSC Advances</i> , 2015, 5, 101776-101788.	3.6	27
9	Third-order nonlinear optical properties of 3,4-ethylenedioxythiophene copolymers with chalcogenadiazole acceptors. <i>New Journal of Chemistry</i> , 2015, 39, 2795-2806.	2.8	26
10	Synthesis of on resin poly(propylene imine) dendrimer and its use as organocatalyst. <i>Tetrahedron Letters</i> , 2014, 55, 2352-2354.	1.4	25
11	Optically active poly(ester-amide)s: synthesis and characterization. <i>Polymer International</i> , 2001, 50, 1318-1323.	3.1	22
12	A novel dendritic polymer based turn-off fluorescence sensor for the selective detection of cyanide ion in aqueous medium. <i>Reactive and Functional Polymers</i> , 2019, 137, 71-78.	4.1	22
13	Polycarbosilane- ϵ -supported titanium(IV) catalyst for Knoevenagel condensation reaction. <i>Applied Organometallic Chemistry</i> , 2013, 27, 73-78.	3.5	19
14	Theoretical and experimental investigations on the photoconductivity and nonlinear optical properties of donor- ϵ -acceptor π -conjugated copolymer, poly(2,5-(3,4-ethylenedioxythiophene)-alt-2,7-(9,9-dioctylfluorene)). <i>RSC Advances</i> , 2015, 5, 8657-8668.	3.6	19
15	A new type IV DES: a competent green catalyst and solvent for the synthesis of α,β -unsaturated diketones and dicyano compounds by Knoevenagel condensation reaction. <i>New Journal of Chemistry</i> , 2020, 44, 14723-14732.	2.8	19
16	Highly functionalized heterogeneous dendrigraft catalysts with peripheral copper moieties for the facile synthesis of 2-substituted benzimidazoles and 2,2-disubstituted benzimidazoles. <i>RSC Advances</i> , 2016, 6, 18141-18155.	3.6	18
17	Green synthesis of pyrazolopyranopyrimidinone and pyranopyrazole derivatives using porphyrin- ϵ -initiated amine- ϵ -functionalized PolyBCMO dendritic polymer as sonocatalyst. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 197-209.	2.6	18
18	Synthesis and Characterization of Polystyrene Supported Catalytically Active Poly(amidoamine) Dendrimer-Palladium Nanoparticle Conjugates. <i>Soft Materials</i> , 2010, 8, 114-129.	1.7	17

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19	Palladium(II) supported on polycarbosilane: Application as reusable catalyst for Heck reaction. <i>Journal of Molecular Catalysis A</i> , 2015, 407, 87-92.	4.8	15
20	Development of homogeneous polyamine organocatalyst for the synthesis of 2-aryl-substituted benzimidazole and benzoxazole derivatives. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 3310-3317.	2.6	15
21	Synthesis and third-order nonlinear optical properties of low band gap 3,4-ethylenedioxythiophene-quinoxaline copolymers. <i>European Polymer Journal</i> , 2015, 64, 157-169.	5.4	14
22	Heterogeneous High-Loading Hyperbranched Polyglycidol with Peripheral NHC-Pd Complex: Synthesis and Application as Catalyst in Suzuki Coupling Reaction. <i>Catalysis Letters</i> , 2019, 149, 1952-1964.	2.6	13
23	Sustainable synthesis of 1,8-dioxooctahydroxanthenes in deep eutectic solvents (DESs). <i>New Journal of Chemistry</i> , 2021, 45, 8335-8344.	2.8	13
24	Second-harmonic response of a series of chiral polyesters: A joint experimental and theoretical study. <i>Journal of Polymer Science Part A</i> , 2002, 40, 2868-2877.	2.3	11
25	Deep eutectic solvent assisted synthesis of dihydropyrimidinones/thiones via Biginelli reaction: theoretical investigations on their electronic and global reactivity descriptors. <i>New Journal of Chemistry</i> , 2021, 45, 20765-20775.	2.8	11
26	Alkylation of Phenol with Methanol Over Rare Earth Promoted Sulfated Tin Oxide Catalyst. <i>Reaction Kinetics and Catalysis Letters</i> , 2000, 69, 339-343.	0.6	10
27	Dendrimer functionalized polysilane: An efficient and recyclable organocatalyst. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	10
28	Dendritic Amine on Mesoporous Silica: First Organo Base Catalyst for Paal Knorr Reaction under Solvent Free Condition, A green approach. <i>Catalysis Letters</i> , 2017, 147, 964-975.	2.6	10
29	Multi-arm dendronized polymer as a unimolecular micelle: Synthesis, characterization and application as organocatalyst in the synthesis of N-unsubstituted 1,2,3-triazoles. <i>Reactive and Functional Polymers</i> , 2021, 160, 104827.	4.1	10
30	Title is missing!. <i>Journal of Materials Science</i> , 2003, 38, 1573-1577.	3.7	9
31	Acetalation of Pentaerithritol Catalyzed by an Al-Pillared Saponite. <i>Catalysis Letters</i> , 2011, 141, 1118-1122.	2.6	9
32	Amphiphilic Dendrimer as Reverse Micelle: Synthesis, Characterization and Application as Homogeneous Organocatalyst. <i>Tetrahedron</i> , 2019, 75, 130676.	1.9	9
33	Experimental Investigation on the Correlation between the Physicochemical Properties and Catalytic Activity of Six DESs in the Kabachnik-Fields Reaction. <i>ChemistrySelect</i> , 2020, 5, 13454-13460.	1.5	9
34	Spray pyrolysed In ₂ S ₃ thin films: A potential electron selective layer for large area inverted bulk-heterojunction polymer solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 199-203.	1.8	8
35	Effect of concentration of DYE on the storage life of plane wave gratings on photopolymer film. <i>Journal of Applied Polymer Science</i> , 2012, 125, 1238-1243.	2.6	8
36	Synthesis and application of polycarbosilane supported manganese ions as catalyst in mannich reaction. <i>Journal of Applied Polymer Science</i> , 2013, 127, 717-723.	2.6	8

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37	Sustainable and selective synthesis of benzimidazole scaffolds using deep eutectic solvents. <i>Current Research in Green and Sustainable Chemistry</i> , 2022, 5, 100285.	5.6	8
38	Catalytic effects of poly(methyl methacrylate)-supported β^2 -diketone-linked palladium complexes in olefin oxidation. <i>Journal of Chemical Sciences</i> , 2002, 114, 481-486.	1.5	7
39	Effect of chromium doping on the diffraction efficiency of methylene blue sensitized PVA/acrylamide films. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 216-220.	2.2	7
40	Polystyrene Supported Manganese Complexes: Heterogeneous Catalysts for Oxidation Reactions. <i>Journal of Polymer Research</i> , 2003, 10, 267-273.	2.4	6
41	Optical and thermal properties of diethyltartrate based chiral polyurethanes with main chain amido chromophores. <i>Journal of Applied Polymer Science</i> , 2011, 119, 111-119.	2.6	6
42	Synthesis of β^2 -amino alcohols catalyzed by poly(vinyl chloride)-supported Schiff base metal complexes. <i>Monatshefte für Chemie</i> , 2012, 143, 637-642.	1.8	6
43	Heterogeneous dendronized polymer with peripheral copper moieties: From synthesis to catalysis and comparison with dendrigraft polymer. <i>Polymer</i> , 2017, 120, 100-110.	3.8	6
44	Glucose:urea:NH ₄ Cl low melting mixture for the synthesis of symmetric azines. <i>Synthetic Communications</i> , 2019, 49, 3148-3160.	2.1	6
45	A study on the physical properties of low melting mixtures and their use as catalysts/solvent in the synthesis of barbiturates. <i>Journal of Heterocyclic Chemistry</i> , 2021, 58, 1849-1860.	2.6	6
46	Second harmonic generation and polar order in thin films of polyesters. <i>Colloid and Polymer Science</i> , 2003, 281, 485-489.	2.1	5
47	Studies on second harmonic generation efficiency by a series of chiral polyesters. <i>Journal of Applied Polymer Science</i> , 2003, 89, 2468-2473.	2.6	5
48	Synthesis and Properties of Polyurethanes of Hexamethylene Di-Isocyanate with Multifunctional Chromophores in the Main Chain. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2009, 58, 160-166.	3.4	5
49	Porphyrin Cored Amine Functionalized Dendritic Polymer: An Efficient Reusable Catalyst for Quinoline Synthesis. <i>ChemistrySelect</i> , 2019, 4, 5897-5902.	1.5	5
50	Enantioselective Diels-Alder reaction catalyzed by clay supported Schiff base complex. <i>Journal of Heterocyclic Chemistry</i> , 2021, 58, 153-160.	2.6	5
51	Reusable recording medium based on MBPVA and vinyl acetate. <i>Journal of Modern Optics</i> , 2006, 53, 343-355.	1.3	4
52	Peristrophic multiplexing studies in silver doped photopolymer film. <i>Journal of Modern Optics</i> , 2010, 57, 908-913.	1.3	4
53	Chiral dendrigraft polymer for asymmetric synthesis of isoquinolidines. <i>RSC Advances</i> , 2016, 6, 85643-85658.	3.6	4
54	Photophysical and photoconductive aspects of donor-acceptor low band gap conjugated copolymer. <i>Optical Materials</i> , 2018, 84, 813-820.	3.6	4

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55	Study of polycarbosilane-supported copper(II) as a heterogeneous catalyst. <i>Polymer Bulletin</i> , 2020, 77, 153-163.	3.3	4
56	Convenient Synthesis of Dihydropyridine and Dihydropyrimidinethione Derivatives Using a Porphyrin Cored G1 PAMAM Dendrimer as a Homogeneous Catalyst. <i>ChemistrySelect</i> , 2020, 5, 506-514.	1.5	4
57	Heterogeneous palladium (II)-complexed dendronized polymer: A rare palladium catalyst for the one-pot synthesis of 2-arylbenzoxazoles. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6083.	3.5	4
58	Deep eutectic solvent for the synthesis of (E)- Nitroalkene via microwave assisted Henry reaction. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100187.	5.6	4
59	Epoxidation and oxidation reactions using 1,4-butanediol dimethacrylate crosslinked polystyrene-supported tertiary butyl hydroperoxide. <i>Journal of Chemical Sciences</i> , 2004, 116, 319-324.	1.5	3
60	Photophysical and Electrochemical Investigations on Photoconducting Poly(6-tert-butyl-3,4-dihydro-2H-1,3-benzoxazine). <i>Macromolecular Symposia</i> , 2009, 277, 112-118.	0.7	3
61	Supported and Reusable Organocatalysts. , 2013, , 343-364.		3
62	Synthesis of heterogeneous catalysts and study of its catalytic activity towards Henry reaction and Asymmetric aldol reaction. <i>Materials Today: Proceedings</i> , 2019, 9, 46-53.	1.8	3
63	Sustainable multicomponent one pot synthesis of pyranopyrazole derivatives in the presence of Lactic acid: Urea: NH ₄ Cl. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100194.	5.6	3
64	Amine Functionalized Dendronized Polymer as a Homogeneous Base Catalyst for the Synthesis of Polyhydroquinolines and 4-Arylidene-3-Methylisoxazol-5(4H)-Ones. <i>Catalysis Letters</i> , 2022, 152, 2457-2469.	2.6	3
65	Electron donor properties and catalytic activity of manganese ferrospones. <i>Reaction Kinetics and Catalysis Letters</i> , 1999, 66, 39-45.	0.6	2
66	Theoretical and experimental studies of chiral polyurethanes. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	2
67	A polyamine dendritic polymer-copper complex: a reusable catalyst for the additive-free amination of aryl bromides, and iodides. <i>New Journal of Chemistry</i> , 2020, 44, 1477-1484.	2.8	2
68	Azide functionalized porphyrin based dendritic polymers for <i>in vivo</i> monitoring of Hg ²⁺ ions in living cells. <i>Analytical Methods</i> , 2020, 12, 2995-3003.	2.7	2
69	Dual solvent-catalyst role of deep eutectic solvents in Hantzsch dihydropyridine synthesis. <i>Synthetic Communications</i> , 0, , 1-12.	2.1	2
70	Efficient synthesis of piperidine derivatives using dendrimer based catalytical pockets. <i>Journal of Heterocyclic Chemistry</i> , 2021, 58, 2348-2358.	2.6	2
71	Green synthesis of dihydropyrano[3,2-c]chromene derivatives using amino-terminated PAMAM dendrimer as catalyst. <i>Research on Chemical Intermediates</i> , 2022, 48, 379-399.	2.7	2
72	Synthesis, Characterization and DFT-D Studies of 2-Aminoethoxycalix[4]resorcinarenes: A Novel Heterogeneous Organocatalyst. <i>Catalysis Letters</i> , 0, , 1.	2.6	2

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73	Photoreactions of a polyamic acid containing 2,2-dinitrodiphenylmethane segments at symmetrical positions in the main chain. <i>European Polymer Journal</i> , 2002, 38, 2441-2447.	5.4	1
74	Recording multiple holographic gratings in silver-doped photopolymer using peristrophic multiplexing. <i>Pramana - Journal of Physics</i> , 2010, 75, 1241-1247.	1.8	1
75	Dendrimer with Interior Cavity as Catalytic Pockets for Substrate Molecules: Synthesis of Bisimidazoles and Molecular Docking Study. <i>ChemistrySelect</i> , 2020, 5, 5055-5065.	1.5	1
76	Novel Carboxylic Acid Functionalized Dendronized Polymer: A Homogeneous, Reusable Metal Free Acid Catalyst for the Synthesis of Symmetric and Unsymmetric Xanthene Derivatives. <i>ChemistrySelect</i> , 2021, 6, 13832-13841.	1.5	1
77	Synthesis of Quinoline and Polyhydroquinoline Derivatives Using Phloroglucinol Cored Amino Functionalized Dendritic Polymer as Catalyst. <i>ChemistrySelect</i> , 2022, 7, .	1.5	1
78	Electric field dependence of thermal activation energy in poly(4TBU)/poly(methyl) methacrylate blend. , 2007, , .		0
79	Hyperpolarizability studies of some nonconjugated twin donor-acceptor molecules. <i>Bulletin of Materials Science</i> , 2011, 34, 893-897.	1.7	0
80	Fabrication and characterization of MEH-PPV based bulk-heterojunction solar cell using spray deposited indium sulfide electron selective layer. , 2012, , .		0
81	Solar cells with high open circuit voltage using thiophene based synthesized copolymer. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
82	Ethylene Glycol: Urea: NH ₄ Cl Low Melting Mixture Assisted Reactions between Aromatic Aldehydes and Active Methylene Compounds. <i>ChemistrySelect</i> , 2021, 6, 7150-7157.	1.5	0
83	Palladium Loaded Dendronized Polymer as Efficient Polymeric Sustainable Catalyst for Heck Coupling Reaction. <i>Catalysis Letters</i> , 0, , 1.	2.6	0
84	Design of primary amine-functionalized polymer containing chiral isosorbide in the main chain for the asymmetric synthesis of isoquinuclidine derivatives. <i>New Journal of Chemistry</i> , 0, , .	2.8	0
85	Synthesis of 1H-pyrazolo[1,2-b]phthalazine-5,10-dione derivatives using dendritic polymer with amine-loaded catalytic capsules: computational approaches. <i>Polymer Bulletin</i> , 0, , 1.	3.3	0
86	Low melting mixtures: neoteric solvents and/or catalysts for a green approach in organic reactions. <i>Mini-Reviews in Organic Chemistry</i> , 2022, 19, .	1.3	0