

# Rajakumar Perumal

## List of Publications by Citations

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103  
papers

824  
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15  
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21  
g-index

103  
ext. papers

904  
ext. citations

3.1  
avg, IF

4.52  
L-index

#	Paper	IF	Citations
103	Synthesis of novel carbazole based macrocyclic amides as potential antimicrobial agents. <i>European Journal of Medicinal Chemistry</i> , <b>2009</b> , 44, 3040-5	6.8	51
102	Influence of triazole dendritic additives in electrolytes on dye-sensitized solar cell (DSSC) performance. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 7700		31
101	Synthesis and in-vitro anti-inflammatory activity of novel glycodendrimers with benzene 1,3,5 carboxamide core and triazole as branching unit. <i>European Journal of Medicinal Chemistry</i> , <b>2011</b> , 46, 4687-95	6.8	28
100	Photophysical properties and dye-sensitized solar cell studies on thiadiazole-triazole-chalcone dendrimers. <i>Tetrahedron Letters</i> , <b>2012</b> , 53, 1139-1143	2	27
99	Click Chemistry Approach for the Synthesis of Water-Soluble Glycodendrimer with Triazole as Building Unit. <i>Synlett</i> , <b>2009</b> , 2009, 1417-1422	2.2	26
98	Isobenzotriazolophanes: a new class of fluorescent cyclophanes as sensors for aromatic nitro explosives picric acid. <i>RSC Advances</i> , <b>2014</b> , 4, 53484-53489	3.7	25
97	Synthesis and DSSC application of novel dendrimers with benzothiazole and triazole units. <i>Tetrahedron Letters</i> , <b>2011</b> , 52, 5812-5816	2	24
96	Synthesis of some novel imidazole-based dicationic carbazolophanes as potential antibacterials. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2008</b> , 18, 4416-9	2.9	23
95	Synthesis and catalytic application of glycodendrimers decorated with gold nanoparticles in reduction of 4-nitrophenol. <i>RSC Advances</i> , <b>2015</b> , 5, 46908-46915	3.7	20
94	Synthesis of chiral core based triazole dendrimers with m-terphenyl surface unit and their antibacterial studies. <i>RSC Advances</i> , <b>2014</b> , 4, 41778-41783	3.7	19
93	Enhanced performance of dye-sensitized solar cell using triazole based phenothiazine dendrimers as additives. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13941	13	19
92	Synthesis of triazole dendrimers with a dimethyl isophthalate surface group and their application to dye-sensitized solar cells. <i>New Journal of Chemistry</i> , <b>2010</b> , 34, 2247	3.6	17
91	Synthesis and anticancer activity of bile acid dendrimers with triazole as bridging unit through click chemistry. <i>Steroids</i> , <b>2017</b> , 125, 37-46	2.8	16
90	Synthesis and antibacterial activity of some novel imidazole-based dicationic quinolinophanes. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2009</b> , 19, 3466-70	2.9	16
89	Synthesis, optical properties, and antioxidant and anticancer activity of benzoheterazole dendrimers with triazole bridging unit. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 3282-3292	3.6	15
88	Pyreno-chalcone dendrimers as an additive in the redox couple of dye-sensitized solar cells. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 1811-1818	4.3	15
87	p-tert-Butylcalix[4]arene core based ferrocenyl dendrimers: Novel sensor for toxic Hg <sup>2+</sup> ion even in presence of Zn <sup>2+</sup> , Cu <sup>2+</sup> and Ag <sup>+</sup> ions. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 242, 904-911	8.5	15

86	Synthesis and study of anti-inflammatory activity of some novel cyclophane amides. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2006</b> , 16, 6019-23	2.9	15
85	Synthesis and antioxidant properties of enone core based dendrimers with carbazole as surface group. <i>European Journal of Medicinal Chemistry</i> , <b>2010</b> , 45, 1220-4	6.8	14
84	Synthesis, characterization, and anti-bacterial efficacy of some novel cyclophane amide. <i>Bioorganic and Medicinal Chemistry</i> , <b>2006</b> , 14, 7458-67	3.4	14
83	Synthesis, characterization, optical and electrochemical properties and antifungal and anticancer activities of ferrocenyl conjugated novel dendrimers. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 1714-1722	3.6	13
82	Synthesis, photophysical and electrochemical properties and DSSC applications of triphenylamine chalcone dendrimers via click chemistry. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 11238-11249	3.6	13
81	Synthesis of benzothiazole-Benzoxazole dendrimers with triazole as bridging unit and their application in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 3692	3.6	12
80	Synthesis and Characterization of Some Novel Dendritic Architectures Bearing Chalcone at the Periphery Through Click Approach. <i>Synthetic Communications</i> , <b>2009</b> , 39, 3888-3897	1.7	12
79	Synthesis and antibacterial activity of some novel chiral fluorophoric bicyclic macrocycles. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2007</b> , 17, 5270-3	2.9	12
78	Interfacial charge transport studies and fabrication of high performance DSSC with ethylene cored unsymmetrical dendrimers as quasi electrolytes. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 265, 717-726	6	12
77	Investigation of Optical Spectroscopic and Computational Binding Mode of Bovine Serum Albumin with 1, 4-Bis ((4-((4-Heptylpiperazin-1-yl) Methyl)-1H-1, 2, 3-Triazol-1-yl) Methyl) Benzene. <i>Journal of Biochemical and Molecular Toxicology</i> , <b>2015</b> , 29, 373-81	3.4	11
76	Synthesis, photophysical, electrochemical, and DSSC application of novel donor-acceptor triazole bridged dendrimers with a triphenylamine core and benzoheterazole as a surface unit. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 10246-10258	3.6	11
75	Synthesis, photophysical and electrochemical properties of 1,2,3-triazolyl bridged ferrocenyl dendrimers through click chemistry. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 1594	3.6	11
74	Synthesis, study on anti-arthritis, anti-inflammatory activity and toxicity of some novel bis-oxy cyclophane diamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2012</b> , 22, 3770-5	2.9	11
73	Synthesis and application of stilbenoid phenothiazine dendrimers as additives for dye-sensitized solar cells. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2117-2124	7.8	11
72	Synthesis and anti-inflammatory activity of triazole-based macrocyclic amides through click chemistry. <i>Synthetic Communications</i> , <b>2017</b> , 47, 671-679	1.7	10
71	Synthesis, optical, electrochemical, and thermal studies on triazole-based dendrimers with diphenylamine as surface group. <i>Tetrahedron Letters</i> , <b>2010</b> , 51, 5167-5172	2	10
70	Novel 4,4'-Bipyridinium-Based Cationic Mono- and Bicyclic Cyclophanes. <i>European Journal of Organic Chemistry</i> , <b>2003</b> , 2003, 1277-1284	3.2	10
69	Sodium sulfate supported synthesis of cationic cyclophanes using microwaves. <i>Chemical Communications</i> , <b>2001</b> , 2710-2711	5.8	10

68	Synthesis, Photophysical, Electrochemical Studies, and Antioxidant Properties of Fluorescein-Linked Glycodendrimers. <i>Asian Journal of Organic Chemistry</i> , <b>2016</b> , 5, 1155-1163	3	9
67	Synthesis, antibacterial and antioxidant properties of novel ethylenoindolophanes a new class of cyclophanes. <i>RSC Advances</i> , <b>2014</b> , 4, 21190	3.7	9
66	TiCl <sub>4</sub> , Dioxane a Facile and Efficient System for De-O-Benzoylation, De-O-Allylation, and De-O-Xylylation of Phenolic Ethers. <i>Synthetic Communications</i> , <b>2003</b> , 33, 3891-3896	1.7	9
65	Synthesis and electrochemical properties of dendrimers containing meta-terphenyl peripheral groups and a 4,4'-bipyridinium core. <i>Tetrahedron</i> , <b>2004</b> , 60, 10285-10291	2.4	9
64	Synthesis and DSSC application of donor-acceptor stilbenoid dendrimers with triphenylamine as core and benzothiazole as surface unit. <i>Organic Electronics</i> , <b>2018</b> , 56, 192-200	3.5	8
63	Synthesis, Electrochemical, Antibacterial and Anticancer Studies on Triazole-Bridged Pyrrolidine-Grafted Macrocycles via [3+2] Cycloaddition of Azomethin Ylide. <i>ChemistrySelect</i> , <b>2018</b> , 3, 4687-4693	1.8	8
62	Synthesis and cardio protective biological applications of glucodendrimers by H9C2 cell studies. <i>Carbohydrate Polymers</i> , <b>2014</b> , 99, 403-14	10.3	8
61	Synthesis and Optoelectrochemical Properties of Stilbenophanes Having Carbazole Moieties. <i>Synlett</i> , <b>2012</b> , 23, 2504-2510	2.2	8
60	Synthesis and characterization of axially chiral enantiopure novel dendrimers. <i>Tetrahedron: Asymmetry</i> , <b>2005</b> , 16, 2295-2298		8
59	Synthesis, H <sub>2</sub> PO <sub>4</sub> <sup>-</sup> and Pd <sup>2+</sup> ion sensing and gold nanoparticle encapsulation of ferrocenyldendrimers by a green chemistry approach. <i>RSC Advances</i> , <b>2014</b> , 4, 4413-4419	3.7	7
58	Synthesis of Pyrene-Based Ester Dendrimers for Applications in Dye-Sensitized Solar Cells. <i>Bulletin of the Chemical Society of Japan</i> , <b>2012</b> , 85, 902-911	5.1	7
57	Sub 1 nm Poly(acrylic acid)-Capped Copper Nanoparticles for the Synthesis of 1,2,3-Triazole Compounds. <i>ACS Omega</i> , <b>2020</b> , 5, 7815-7822	3.9	6
56	Synthesis, characterization, optical and electrochemical properties and antibacterial activity of novel BODIPY glycoconjugated dendrimers. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 2504-2512	3.6	6
55	Synthesis and structural study of thiacyclophanes utilizing dibromides and methane dithiolate. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 3267-70	4.2	6
54	Synthesis, Photophysical, and Antioxidant Properties of Rhodamine B Decorated Novel Dendrimers. <i>Australian Journal of Chemistry</i> , <b>2018</b> , 71, 399	1.2	6
53	Synthesis and DSSC application of triazole bridged dendrimers with benzoheterazole surface groups. <i>Solar Energy</i> , <b>2018</b> , 166, 379-389	6.8	5
52	Synthesis and antibacterial activity of some novel piperazinophanes with an intraannular ester functionality. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 9494-9499	3.6	5
51	Synthesis, photophysical properties and anticancer activity of micro-environment sensitive amphiphilic bile acid dendrimers. <i>RSC Advances</i> , <b>2016</b> , 6, 25808-25818	3.7	5

50	Discovery of new potential triplet acting inhibitor for Alzheimer's disease via X-ray crystallography, molecular docking and molecular dynamics. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2020</b> , 38, 1903-1917	3.6	5
49	Synthesis, anti-microbial activity and molecular docking studies on triazolylcoumarin derivatives. <i>Journal of Chemical Sciences</i> , <b>2015</b> , 127, 565-574	1.8	4
48	Synthesis and Antibacterial Activity of Novel N-Methyl Pyrrolidine Dendrimers via [3+2] Cycloaddition. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , <b>2014</b> , 84, 371-379	0.9	4
47	Synthesis and Photophysical Studies of S-(1,1',1'-Binaphthol-Based Pyrene-Terminated Dendrimers. <i>Synthetic Communications</i> , <b>2013</b> , 43, 2226-2235	1.7	4
46	Synthesis, Photophysical, Electrochemical Properties and Anticancer, Antimicrobial Activity of N-n-Hexyl-N-Phenylanilinochalcone-Capped Dendrimers. <i>ChemistrySelect</i> , <b>2017</b> , 2, 10167-10175	1.8	4
45	Synthesis and antimicrobial activity of some novel dicationic sulphonophanes. <i>European Journal of Medicinal Chemistry</i> , <b>2011</b> , 46, 3093-8	6.8	4
44	Cycloaddition Approach for the Synthesis of Some Hindered N-Benzoylimidazoles. <i>Synthetic Communications</i> , <b>1994</b> , 24, 1847-1853	1.7	4
43	Synthesis, photophysical, antibacterial and molecular docking studies on aromatic ring core-containing rhodamine B decorated triazole bridged dendrimers. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 19390-19399	3.6	4
42	Regio- and stereoselective synthesis of spiropyrrrolidine-oxindole and bis-spiropyrrrolizidine-oxindole grafted macrocycles through [3 + 2] cycloaddition of azomethine ylides.. <i>RSC Advances</i> , <b>2020</b> , 10, 10263-10276	3.7	3
41	Synthesis and photophysical, antibacterial studies of some novel molecular tweezers. <i>Supramolecular Chemistry</i> , <b>2016</b> , 28, 212-223	1.8	3
40	Synthesis, Photophysical, Electrochemical Properties, DFT Studies and DSSC Performance of BODIPY Cored Triazole Bridged 3,6-Ditertiary Butyl Carbazole Decorated Dendrimers. <i>ChemistrySelect</i> , <b>2018</b> , 3, 9222-9231	1.8	3
39	Synthesis and in vitro anti-arthritic, anti-inflammatory studies on hypervalent pyranoside glycodendrimers with triazole bridging point. <i>Supramolecular Chemistry</i> , <b>2013</b> , 25, 362-370	1.8	3
38	Synthesis and Characterization of Some Novel Glycodendrimers and N-alkyldendrimers with Amide Core and Triazole Functionality through Click Chemistry. <i>Synthetic Communications</i> , <b>2013</b> , 43, 2217-2225	1.7	3
37	SYNTHESIS OF INTRA ANNULARLY LINKED BENZOTRIAZOLOPHANE. <i>Synthetic Communications</i> , <b>2002</b> , 32, 1685-1690	1.7	3
36	NITROETHYLENOPHANES—NEW CLASS OF NOVEL CYCLOPHANES. <i>Synthetic Communications</i> , <b>2001</b> , 31, 3517-3525	1.7	3
35	Synthesis and Antimicrobial Activity of Unsymmetrical Dendrimers With Indazole, Salicylates and Anthranilates as Surface Units. <i>Journal of Heterocyclic Chemistry</i> , <b>2017</b> , 54, 1963-1973	1.9	2
34	Synthesis, Cell Viability, and Flow Cytometric Fluorescence Pulse Width Analysis of Dendrimers with Indazoles Surface Unit. <i>Journal of Heterocyclic Chemistry</i> , <b>2017</b> , 54, 3042-3050	1.9	2
33	Application of McMurry Coupling for the Synthesis of Indolophanetriene and Carbazolophanetriene —A New Class of Caged Cyclophanes. <i>ChemistrySelect</i> , <b>2019</b> , 4, 1103-1107	1.8	2

32	Synthesis and DSSC application of BODIPY decorated triazole bridged and benzene nucleus cored conjugated dendrimers.. <i>RSC Advances</i> , <b>2020</b> , 10, 18390-18399	3.7	2
31	Synthesis, photophysical, and electrochemical properties of triazolyl dendrimers with thiazolylchalcone surface unit. <i>Synthetic Communications</i> , <b>2018</b> , 48, 38-49	1.7	2
30	Photophysical and Electrochemical Properties and Anticancer Activities of Porphyrin-Cored Fluorenodendrimers Synthesized by Click Chemistry. <i>Synlett</i> , <b>2018</b> , 29, 1995-2000	2.2	2
29	Synthesis, photophysical and electrochemical properties of chiral and achiral thiadiazolophanes. <i>RSC Advances</i> , <b>2014</b> , 4, 23433-23439	3.7	2
28	Synthesis and Optical and Electrochemical Studies on Dicationic Fluorenophanes. <i>Synthetic Communications</i> , <b>2013</b> , 43, 882-892	1.7	2
27	Synthesis, Photophysical, Electrochemical Properties and Charge-Transfer Complexation Studies of Piperazinophanes. <i>Synlett</i> , <b>2014</b> , 25, 2127-2132	2.2	2
26	Synthesis and host-guest complexation, photophysical and electrochemical studies on novel thiophenophanes. <i>Supramolecular Chemistry</i> , <b>2009</b> , 21, 674-680	1.8	2
25	Facile Synthesis of 2'-Acetamido-m-terphenyls via Suzuki Coupling. <i>Synthetic Communications</i> , <b>2004</b> , 34, 1811-1818	1.7	2
24	Novel One-Pot Synthesis of Tetrasubstituted Phenolic Ketones and Sulphones. <i>Synthetic Communications</i> , <b>1995</b> , 25, 2561-2568	1.7	2
23	Synthesis and Molecular Transformations of Functionalised Cyclophanes with Large Cavity. <i>Synthetic Communications</i> , <b>1995</b> , 25, 3053-3065	1.7	2
22	Cyclohexadienone core 3,6-di-tert-butylcarbazole decorated triazole bridged dendrimers: synthesis, photophysical and electrochemical properties and application as an additive in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 4036-4048	3.6	2
21	Synthesis, optical, electrochemical properties and anticancer activity of (S)-BINOL cored triazole bridged dendrimers decorated with rhodamine B surface group.. <i>RSC Advances</i> , <b>2019</b> , 9, 36994-37002	3.7	2
20	Synthesis, Photochemical, Electrochemical and Cytotoxic Studies on Azobenzene Cored Dendrimer Decorated with Chalcone Motif. <i>ChemistrySelect</i> , <b>2018</b> , 3, 5455-5460	1.8	2
19	Synthesis and optical and electrochemical properties of glucose-cored ferrocenyl dendrimers. <i>Synthetic Communications</i> , <b>2017</b> , 47, 541-550	1.7	1
18	Crystal structures of three 1-[4-(4-bromo-but-oxy)-phen-yl] chalcone derivatives: (()-1-[4-(4-bromo-but-oxy)-phen-yl]-3-phenyl-prop-2-en-1-one, (()-1-[4-(4-bromo-but-oxy)-phen-yl]-3-(4-meth-oxy-phen-yl)prop-2-en-1-one and (()-1-[4-(4-bromo-but-oxy)-phen-yl]-3-(3,4-di-meth-oxy-phen-yl)prop-2-en-1-one. <i>Acta</i>	0.7	1
17	Synthesis and analysis of in vitro anti-arthritis activity of dendrimers with methyl, ethyl and isopropyl salicylates as surface groups. <i>RSC Advances</i> , <b>2014</b> , 4, 63208-63215	3.7	1
16	Synthesis, photophysical, electrochemical and laser properties of anthracene conjugated glycodendrimers with triazole as a bridging unit. <i>RSC Advances</i> , <b>2015</b> , 5, 51834-51840	3.7	1
15	Synthesis of Hyperbranched Dendrimers with Hydrophobic Surface Group. <i>Synthetic Communications</i> , <b>2004</b> , 34, 2009-2017	1.7	1

14	Synthesis of Annularly Functionalized Dicationic Benzimidazolophanes and Benzotriazolophanes. <i>Synthetic Communications</i> , <b>2003</b> , 33, 4191-4198	1.7	1
13	Tandem Aryne Sequence Route to the Synthesis of Substituted Fluorenones. <i>Synthetic Communications</i> , <b>1995</b> , 25, 3537-3544	1.7	1
12	Chiral and Achiral 1,3,4-Oxadiazolophanes: A New Class of Cyclophanes in Supramolecular Chemistry. <i>Journal of Heterocyclic Chemistry</i> , <b>2016</b> , 53, 993-996	1.9	1
11	Synthesis, photophysical and electrochemical properties and DSSC application of triphenylaminochalcone cored dendrimers with anthracene and pyrene as surface groups and triazolylcholanoate as the bridging unit. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 16542-16554	3.6	1
10	Synthesis, photophysical, antibacterial and larvicidal studies on triazolophanes with 5-nitro isophthalate functionality at the intraannular position. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 12684-12691	3.6	1
9	Synthesis, photophysical and electrochemical properties of a new class of fluorescent amidoanthracenophanes. <i>RSC Advances</i> , <b>2015</b> , 5, 73951-73957	3.7	0
8	Synthesis, characterization, antibacterial activity and molecular docking studies on triazolophanes with benzophenone and S(-)-BINOL functionalization at the intra annular position. <i>Synthetic Communications</i> , <b>2020</b> , 50, 2461-2477	1.7	0
7	Synthesis, photophysical and electrochemical properties of Fröhlich type dienone core dendrimers with benzothiazole surface unit. <i>RSC Advances</i> , <b>2014</b> , 4, 3760-3766	3.7	0
6	An amide cyclo-phane. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2014</b> , 70, o865		
5	Synthesis of annularly functionalised BINOL-based chiral cyclophanes. <i>Journal of Chemical Research</i> , <b>2006</b> , 2006, 671-674	0.6	
4	Structural and physical characterizations of an organic Dispiro-Oxindolopyrrolidines single crystal for magnetic applications. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1251, 131869	3.4	
3	Crystal structure of bis-(prop-2-yn-1-yl) 5-nitro-isophthalate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , <b>2015</b> , 71, o435	0.7	
2	Crystal structure of 2,2'bis-[(2-chloro-benz-yl)-oxy]-1,1'-bi-naphthalene. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , <b>2015</b> , 71, o637-8	0.7	
1	Efficient Straightforward Synthesis of Amidopiperazinophanes as Versatile Novel Supramolecular Scaffolds. <i>SynOpen</i> , <b>2019</b> , 03, 157-163	0.7	