

Rajakumar Perumal

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

824
citations

15
h-index

21
g-index

103
ext. papers

904
ext. citations

3.1
avg, IF

4.52
L-index

#	Paper	IF	Citations
103	Structural and physical characterizations of an organic Dispiro-Oxindolopyrrolidines single crystal for magnetic applications. <i>Journal of Molecular Structure</i> , 2021 , 1251, 131869	3.4	
102	Synthesis and DSSC application of BODIPY decorated triazole bridged and benzene nucleus cored conjugated dendrimers.. <i>RSC Advances</i> , 2020 , 10, 18390-18399	3.7	2
101	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> , 2020 , 50, 2461-2477	1.7	0
100	Regio- and stereoselective synthesis of spiropyrrolidine-oxindole and bis-spiropyrrolizidine-oxindole grafted macrocycles through [3 + 2] cycloaddition of azomethine ylides.. <i>RSC Advances</i> , 2020 , 10, 10263-10276	3.7	3
99	Sub 1 nm Poly(acrylic acid)-Capped Copper Nanoparticles for the Synthesis of 1,2,3-Triazole Compounds. <i>ACS Omega</i> , 2020 , 5, 7815-7822	3.9	6
98	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> , 2020 , 38, 1903-1917	3.6	5
97	Application of McMurry Coupling for the Synthesis of Indolophanetriene and Carbazolophanetriene [A New Class of Caged Cyclophanes. <i>ChemistrySelect</i> , 2019 , 4, 1103-1107	1.8	2
96	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> , 2019 , 43, 4036-4048	3.6	2
95	Efficient Straightforward Synthesis of Amidopiperazinophanes as Versatile Novel Supramolecular Scaffolds. <i>SynOpen</i> , 2019 , 03, 157-163	0.7	
94	Synthesis, optical, electrochemical properties and anticancer activity of (S)-BINOL cored triazole bridged dendrimers decorated with rhodamine B surface group.. <i>RSC Advances</i> , 2019 , 9, 36994-37002	3.7	2
93	Synthesis and DSSC application of triazole bridged dendrimers with benzoheterazole surface groups. <i>Solar Energy</i> , 2018 , 166, 379-389	6.8	5
92	Synthesis and DSSC application of donor-acceptor stilbenoid dendrimers with triphenylamine as core and benzothiazole as surface unit. <i>Organic Electronics</i> , 2018 , 56, 192-200	3.5	8
91	Synthesis, optical properties, and antioxidant and anticancer activity of benzoheterazole dendrimers with triazole bridging unit. <i>New Journal of Chemistry</i> , 2018 , 42, 3282-3292	3.6	15
90	Synthesis, photophysical, and electrochemical properties of triazolyl dendrimers with thiazolylchalcone surface unit. <i>Synthetic Communications</i> , 2018 , 48, 38-49	1.7	2
89	Synthesis, characterization, optical and electrochemical properties and antibacterial activity of novel BODIPY glycoconjugated dendrimers. <i>New Journal of Chemistry</i> , 2018 , 42, 2504-2512	3.6	6
88	Synthesis, Electrochemical, Antibacterial and Anticancer Studies on Triazole-Bridged Pyrrolidine-Grafted Macrocycles via [3+2] Cycloaddition of Azomethin Ylide. <i>ChemistrySelect</i> , 2018 , 3, 4687-4693	1.8	8
87	Photophysical and Electrochemical Properties and Anticancer Activities of Porphyrin-Cored Fluorenodendrimers Synthesized by Click Chemistry. <i>Synlett</i> , 2018 , 29, 1995-2000	2.2	2

86	Synthesis, Photophysical, Electrochemical Properties, DFT Studies and DSSC Performance of BODIPY Cored Triazole Bridged 3,6-Ditertiary Butyl Carbazole Decorated Dendrimers. <i>ChemistrySelect</i> , 2018 , 3, 9222-9231	1.8	3
85	Synthesis, photophysical, antibacterial and molecular docking studies on aromatic ring core-containing rhodamine B decorated triazole bridged dendrimers. <i>New Journal of Chemistry</i> , 2018 , 42, 19390-19399	3.6	4
84	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> , 2018 , 42, 16542-16554	3.6	1
83	Interfacial charge transport studies and fabrication of high performance DSSC with ethylene cored unsymmetrical dendrimers as quasi electrolytes. <i>Journal of Molecular Liquids</i> , 2018 , 265, 717-726	6	12
82	Synthesis, Photochemical, Electrochemical and Cytotoxic Studies on Azobenzene Cored Dendrimer Decorated with Chalcone Motif. <i>ChemistrySelect</i> , 2018 , 3, 5455-5460	1.8	2
81	Synthesis, Photophysical, and Antioxidant Properties of Rhodamine B Decorated Novel Dendrimers. <i>Australian Journal of Chemistry</i> , 2018 , 71, 399	1.2	6
80	Synthesis, photophysical, antibacterial and larvicidal studies on triazolophanes with 5-nitro isophthalate functionality at the intraannular position. <i>New Journal of Chemistry</i> , 2018 , 42, 12684-12691	3.6	1
79	Synthesis, characterization, optical and electrochemical properties and antifungal and anticancer activities of ferrocenyl conjugated novel dendrimers. <i>New Journal of Chemistry</i> , 2017 , 41, 1714-1722	3.6	13
78	Synthesis and Antimicrobial Activity of Unsymmetrical Dendrimers With Indazole, Salicylates and Anthranilates as Surface Units. <i>Journal of Heterocyclic Chemistry</i> , 2017 , 54, 1963-1973	1.9	2
77	Synthesis and anti-inflammatory activity of triazole-based macrocyclic amides through click chemistry. <i>Synthetic Communications</i> , 2017 , 47, 671-679	1.7	10
76	Synthesis and optical and electrochemical properties of glucose-cored ferrocenyl dendrimers. <i>Synthetic Communications</i> , 2017 , 47, 541-550	1.7	1
75	Synthesis, Cell Viability, and Flow Cytometric Fluorescence Pulse Width Analysis of Dendrimers with Indazoles Surface Unit. <i>Journal of Heterocyclic Chemistry</i> , 2017 , 54, 3042-3050	1.9	2
74	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
73	Synthesis, photophysical and electrochemical properties and DSSC applications of triphenylamine chalcone dendrimers via click chemistry. <i>New Journal of Chemistry</i> , 2017 , 41, 11238-11249	3.6	13
72	Synthesis and application of stilbenoid phenothiazine dendrimers as additives for dye-sensitized solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2117-2124	7.8	11
71	Synthesis, Photophysical, Electrochemical Properties and Anticancer, Antimicrobial Activity of N-n-Hexyl-N-Phenylanilinochalcone-Capped Dendrimers. <i>ChemistrySelect</i> , 2017 , 2, 10167-10175	1.8	4
70	Synthesis and anticancer activity of bile acid dendrimers with triazole as bridging unit through click chemistry. <i>Steroids</i> , 2017 , 125, 37-46	2.8	16
69	p-tert-Butylcalix[4]arene core based ferrocenyl dendrimers: Novel sensor for toxic Hg ²⁺ ion even in presence of Zn ²⁺ , Cu ²⁺ and Ag ⁺ ions. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 904-911	8.5	15

68	Synthesis and antibacterial activity of some novel piperazinophanes with an intraannular ester functionality. <i>New Journal of Chemistry</i> , 2016 , 40, 9494-9499	3.6	5
67	Synthesis, Photophysical, Electrochemical Studies, and Antioxidant Properties of Fluorescein-Linked Glycodendrimers. <i>Asian Journal of Organic Chemistry</i> , 2016 , 5, 1155-1163	3	9
66	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> , 2016 , 40, 10246-10258	3.6	11
65	Synthesis and photophysical, antibacterial studies of some novel molecular tweezers. <i>Supramolecular Chemistry</i> , 2016 , 28, 212-223	1.8	3
64	Synthesis, photophysical properties and anticancer activity of micro-environment sensitive amphiphilic bile acid dendrimers. <i>RSC Advances</i> , 2016 , 6, 25808-25818	3.7	5
63	Chiral and Achiral 1,3,4-Oxadiazolophanes: A New Class of Cyclophanes in Supramolecular Chemistry. <i>Journal of Heterocyclic Chemistry</i> , 2016 , 53, 993-996	1.9	1
62	Synthesis, anti-microbial activity and molecular docking studies on triazolylcoumarin derivatives. <i>Journal of Chemical Sciences</i> , 2015 , 127, 565-574	1.8	4
61	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> , 2015 , 29, 373-81	3.4	11
60	Synthesis and catalytic application of glycodendrimers decorated with gold nanoparticles \square reduction of 4-nitrophenol. <i>RSC Advances</i> , 2015 , 5, 46908-46915	3.7	20
59	Synthesis, photophysical and electrochemical properties of a new class of fluorescent amidoanthracenophanes. <i>RSC Advances</i> , 2015 , 5, 73951-73957	3.7	0
58	Synthesis, photophysical, electrochemical and laser properties of anthracene conjugated glycodendrimers with triazole as a bridging unit. <i>RSC Advances</i> , 2015 , 5, 51834-51840	3.7	1
57	Crystal structure of bis-(prop-2-yn-1-yl) 5-nitro-isophthalate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015 , 71, o435	0.7	
56	Crystal structure of 2,2'bis-[(2-chloro-benz-yl)-oxy]-1,1'bi-naphthalene. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015 , 71, o637-8	0.7	
55	Synthesis, photophysical and electrochemical properties of Fröhlich type dienone core dendrimers with benzothiazole surface unit. <i>RSC Advances</i> , 2014 , 4, 3760-3766	3.7	0
54	Synthesis and analysis of in vitro anti-arthritic activity of dendrimers with methyl, ethyl and isopropyl salicylates as surface groups. <i>RSC Advances</i> , 2014 , 4, 63208-63215	3.7	1
53	Synthesis, photophysical and electrochemical properties of chiral and achiral thiadiazolophanes. <i>RSC Advances</i> , 2014 , 4, 23433-23439	3.7	2
52	Isobenzotriazolophanes: a new class of fluorescent cyclophanes as sensors for aromatic nitro explosives \square picric acid. <i>RSC Advances</i> , 2014 , 4, 53484-53489	3.7	25
51	Synthesis, H ₂ PO ₄ \square and Pd ²⁺ ion sensing and gold nanoparticle encapsulation of ferrocenyldendrimers by a green chemistry approach. <i>RSC Advances</i> , 2014 , 4, 4413-4419	3.7	7

50	Synthesis, antibacterial and antioxidant properties of novel ethylenoindolophanes a new class of cyclophanes. <i>RSC Advances</i> , 2014 , 4, 21190	3.7	9
49	Synthesis, photophysical and electrochemical properties of 1,2,3-triazolyl bridged ferrocenyl dendrimers through click chemistry. <i>New Journal of Chemistry</i> , 2014 , 38, 1594	3.6	11
48	Synthesis of chiral core based triazole dendrimers with m-terphenyl surface unit and their antibacterial studies. <i>RSC Advances</i> , 2014 , 4, 41778-41783	3.7	19
47	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> , 2014 , 84, 371-379	0.9	4
46	Synthesis, Photophysical, Electrochemical Properties and Charge-Transfer Complexation Studies of Piperazinophanes. <i>Synlett</i> , 2014 , 25, 2127-2132	2.2	2
45	An amide cyclo-phane. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014 , 70, o865		
44	Synthesis and cardio protective biological applications of glucodendrimers by H9C2 cell studies. <i>Carbohydrate Polymers</i> , 2014 , 99, 403-14	10.3	8
43	Synthesis and Photophysical Studies of S-(1,1'-Binaphthol-Based Pyrene-Terminated Dendrimers. <i>Synthetic Communications</i> , 2013 , 43, 2226-2235	1.7	4
42	Synthesis of benzothiazoleBenzoxazole dendrimers with triazole as bridging unit and their application in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2013 , 37, 3692	3.6	12
41	Enhanced performance of dye-sensitized solar cell using triazole based phenothiazine dendrimers as additives. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13941	13	19
40	Synthesis and in vitro anti-arthritic, anti-inflammatory studies on hypervalent pyranoside glycodendrimers with triazole bridging point. <i>Supramolecular Chemistry</i> , 2013 , 25, 362-370	1.8	3
39	Synthesis and Optical and Electrochemical Studies on Dicationic Fluorenophanes. <i>Synthetic Communications</i> , 2013 , 43, 882-892	1.7	2
38	Synthesis and Characterization of Some Novel Glycodendrimers and N-alkyldendrimers with Amide Core and Triazole Functionality through Click Chemistry. <i>Synthetic Communications</i> , 2013 , 43, 2217-2225	1.7	3
37	Synthesis, study on anti-arthritic, anti-inflammatory activity and toxicity of some novel bis-oxy cyclophane diamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 3770-5	2.9	11
36	Photophysical properties and dye-sensitized solar cell studies on thiadiazoleBriazoleBhalcone dendrimers. <i>Tetrahedron Letters</i> , 2012 , 53, 1139-1143	2	27
35	Pyreno-chalcone dendrimers as an additive in the redox couple of dye-sensitized solar cells. <i>Journal of Materials Science</i> , 2012 , 47, 1811-1818	4.3	15
34	Synthesis of Pyrene-Based Ester Dendrimers for Applications in Dye-Sensitized Solar Cells. <i>Bulletin of the Chemical Society of Japan</i> , 2012 , 85, 902-911	5.1	7
33	Synthesis and Optoelectrochemical Properties of Stilbenophanes Having Carbazole Moieties. <i>Synlett</i> , 2012 , 23, 2504-2510	2.2	8

32	Influence of triazole dendritic additives in electrolytes on dye-sensitized solar cell (DSSC) performance. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7700		31
31	Synthesis and DSSC application of novel dendrimers with benzothiazole and triazole units. <i>Tetrahedron Letters</i> , 2011 , 52, 5812-5816	2	24
30	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> , 2011 , 46, 4687-95	6.8	28
29	Synthesis and antimicrobial activity of some novel dicationic sulphonophanes. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 3093-8	6.8	4
28	Synthesis of triazole dendrimers with a dimethyl isophthalate surface group and their application to dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2010 , 34, 2247	3.6	17
27	Synthesis, optical, electrochemical, and thermal studies on triazole-based dendrimers with diphenylamine as surface group. <i>Tetrahedron Letters</i> , 2010 , 51, 5167-5172	2	10
26	Synthesis and antioxidant properties of enone core based dendrimers with carbazole as surface group. <i>European Journal of Medicinal Chemistry</i> , 2010 , 45, 1220-4	6.8	14
25	Click Chemistry Approach for the Synthesis of Water-Soluble Glycodendrimer with Triazole as Building Unit. <i>Synlett</i> , 2009 , 2009, 1417-1422	2.2	26
24	Synthesis of novel carbazole based macrocyclic amides as potential antimicrobial agents. <i>European Journal of Medicinal Chemistry</i> , 2009 , 44, 3040-5	6.8	51
23	Synthesis and antibacterial activity of some novel imidazole-based dicationic quinolinophanes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 3466-70	2.9	16
22	Synthesis and host-guest complexation, photophysical and electrochemical studies on novel thiophenophanes. <i>Supramolecular Chemistry</i> , 2009 , 21, 674-680	1.8	2
21	Synthesis and Characterization of Some Novel Dendritic Architectures Bearing Chalcone at the Periphery Through Click Approach. <i>Synthetic Communications</i> , 2009 , 39, 3888-3897	1.7	12
20	Synthesis of some novel imidazole-based dicationic carbazolophanes as potential antibacterials. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 4416-9	2.9	23
19	Synthesis and antibacterial activity of some novel chiral fluorophoric bicyclic macrocycles. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 5270-3	2.9	12
18	Synthesis of annularly functionalised BINOL-based chiral cyclophanes. <i>Journal of Chemical Research</i> , 2006 , 2006, 671-674	0.6	
17	Synthesis, characterization, and anti-bacterial efficacy of some novel cyclophane amide. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 7458-67	3.4	14
16	Synthesis and study of anti-inflammatory activity of some novel cyclophane amides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 6019-23	2.9	15
15	Synthesis and structural study of thiacyclophanes utilizing dibromides and methane dithiolate. <i>Journal of Organic Chemistry</i> , 2005 , 70, 3267-70	4.2	6

14	Synthesis and characterization of axially chiral enantiopure novel dendrimers. <i>Tetrahedron: Asymmetry</i> , 2005 , 16, 2295-2298		8
13	Facile Synthesis of 2'-Acetamido-m-terphenyls via Suzuki Coupling. <i>Synthetic Communications</i> , 2004 , 34, 1811-1818	1.7	2
12	Synthesis and electrochemical properties of dendrimers containing meta-terphenyl peripheral groups and a 4,4'-bipyridinium core. <i>Tetrahedron</i> , 2004 , 60, 10285-10291	2.4	9
11	Synthesis of Hyperbranched Dendrimers with Hydrophobic Surface Group. <i>Synthetic Communications</i> , 2004 , 34, 2009-2017	1.7	1
10	TiCl ₄ , Dioxane: Facile and Efficient System for De-O-Benzoylation, De-O-Allylation, and De-O-Xylylation of Phenolic Ethers. <i>Synthetic Communications</i> , 2003 , 33, 3891-3896	1.7	9
9	Novel 4,4'-Bipyridinium-Based Cationic Mono- and Bicyclic Cyclophanes. <i>European Journal of Organic Chemistry</i> , 2003 , 2003, 1277-1284	3.2	10
8	Synthesis of Annularly Functionalized Dicationic Benzimidazolophanes and Benzotriazolophanes. <i>Synthetic Communications</i> , 2003 , 33, 4191-4198	1.7	1
7	SYNTHESIS OF INTRA ANNULARLY LINKED BENZOTRIAZOLOPHANE. <i>Synthetic Communications</i> , 2002 , 32, 1685-1690	1.7	3
6	Sodium sulfate supported synthesis of cationic cyclophanes using microwaves. <i>Chemical Communications</i> , 2001 , 2710-2711	5.8	10
5	NITROETHYLENOPHANES: NEW CLASS OF NOVEL CYCLOPHANES. <i>Synthetic Communications</i> , 2001 , 31, 3517-3525	1.7	3
4	Tandem Aryne Sequence Route to the Synthesis of Substituted Fluorenones. <i>Synthetic Communications</i> , 1995 , 25, 3537-3544	1.7	1
3	Novel One-Pot Synthesis of Tetrasubstituted Phenolic Ketones and Sulphones. <i>Synthetic Communications</i> , 1995 , 25, 2561-2568	1.7	2
2	Synthesis and Molecular Transformations of Functionalised Cyclophanes with Large Cavity. <i>Synthetic Communications</i> , 1995 , 25, 3053-3065	1.7	2
1	Cycloaddition Approach for the Synthesis of Some Hindered N-Benzoylimidazoles. <i>Synthetic Communications</i> , 1994 , 24, 1847-1853	1.7	4