

Prakash P Wadgaonkar

List of Publications by Year in descending order

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106
papers

2,240
citations

257101

24
h-index

276539

41
g-index

106
all docs

106
docs citations

106
times ranked

2583
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalization of cardanol: towards biobased polymers and additives. <i>Polymer Chemistry</i> , 2014, 5, 3142-3162.	1.9	372
2	Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1009-1018.	2.7	99
3	Cellulose supported cuprous iodide nanoparticles (Cell-CuI NPs): a new heterogeneous and recyclable catalyst for the one pot synthesis of 1,4-disubstituted 1,2,3-triazoles in water. <i>RSC Advances</i> , 2014, 4, 42137-42146.	1.7	87
4	Tris-hydroxymethylaminomethane (THAM): a novel organocatalyst for an environmentally benign synthesis of medicinally important tetrahydrobenzo[b]pyrans and pyran-annulated heterocycles. <i>New Journal of Chemistry</i> , 2015, 39, 4452-4463.	1.4	75
5	Synthesis and characterization of polyamides containing pendant pentadecyl chains. <i>European Polymer Journal</i> , 2010, 46, 557-567.	2.6	58
6	Synthesis and characterization of new polyimides containing pendant pentadecyl chains. <i>European Polymer Journal</i> , 2009, 45, 582-589.	2.6	53
7	Synthesis, characterization and constitutional isomerism study of new aromatic polyamides containing pendant groups based on asymmetrically substituted meta-phenylene diamines. <i>European Polymer Journal</i> , 2009, 45, 953-959.	2.6	52
8	Nickel ferrite nanoparticles/hydrogen peroxide: a green catalyst-oxidant combination in chemoselective oxidation of thiols to disulfides and sulfides to sulfoxides. <i>RSC Advances</i> , 2014, 4, 36702.	1.7	48
9	Electrochemical Fluorescence Switching from a Patternable Poly(1,3,4-oxadiazole) Thin Film. <i>Macromolecular Rapid Communications</i> , 2011, 32, 637-643.	2.0	46
10	Fluorescent polymeric ionic liquids for the detection of nitroaromatic explosives. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13983.	5.2	46
11	Synthesis and characterization of PEPO grafted carboxymethyl guar and carboxymethyl tamarind as new thermo-associating polymers. <i>Carbohydrate Polymers</i> , 2015, 117, 331-338.	5.1	40
12	Synthesis and characterization of new aromatic polyesters containing cardo decahydronaphthalene groups. <i>European Polymer Journal</i> , 2010, 46, 709-718.	2.6	36
13	Problem Solving and Environmentally Benign Approach toward Diversity Oriented Synthesis of Novel 2-Amino-3-phenyl (or Alkyl) Sulfonyl-4-hydroxy-chromenes at Ambient Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3450-3464.	3.2	36
14	Regularly alternating poly(amideimide)s containing pendant pentadecyl chains: Synthesis and characterization. <i>European Polymer Journal</i> , 2010, 46, 1307-1315.	2.6	33
15	Synthesis and characterization of aromatic polyamides containing ans-triazine ring with thiophenoxy linkages. <i>Polymer International</i> , 2005, 54, 569-575.	1.6	31
16	Synthesis and characterization of aromatic polyazomethines bearing pendant pentadecyl chains. <i>Polymer Degradation and Stability</i> , 2010, 95, 1727-1735.	2.7	30
17	Cobalt ferrite nanoparticles: a magnetically separable and reusable catalyst for Petasis-Borono Mannich reaction. <i>RSC Advances</i> , 2015, 5, 70586-70594.	1.7	30
18	Click chemistry based multicomponent approach in the synthesis of spirochromenocarbazole tethered 1,2,3-triazoles as potential anticancer agents. <i>Bioorganic Chemistry</i> , 2019, 85, 475-486.	2.0	30

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19	Synthesis and characterization of new organosoluble aromatic polyamides and polyazomethines containing pendent pentadecyl chains. <i>High Performance Polymers</i> , 2011, 23, 494-505.	0.8	29
20	Synthesis and liquid-crystal-aligning properties of novel aromatic poly(amide imide)s bearing-alkoxy side chains. <i>Journal of Applied Polymer Science</i> , 2007, 105, 1793-1801.	1.3	28
21	Poly(amideimide)s containing pendant pentadecyl chains: Synthesis and characterization. <i>Polymer Degradation and Stability</i> , 2010, 95, 837-844.	2.7	27
22	Synthesis and characterization of organo-soluble poly(ether ether ketone)s and poly(ether ether) Tj ETQqO O O rgBT /Overlock 10 Tf 50 3689-3695.	1.3	27
23	Pyrene based conjugated materials: synthesis, characterization and electroluminescent properties. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23320-23328.	1.3	26
24	Synthesis and properties of polyurethanes containing s-triazine rings in the main chain. <i>Journal of Polymer Science Part A</i> , 1989, 27, 3263-3269.	2.5	25
25	Copolymerization of methyl methacrylate with lauryl methacrylate using group transfer polymerization. <i>Journal of Polymer Science Part A</i> , 1997, 35, 1999-2007.	2.5	25
26	Synthesis and characterization of new aromatic polyesters containing biphenyl side groups. <i>Journal of Applied Polymer Science</i> , 2007, 106, 3105-3110.	1.3	24
27	Abrupt Shear Thickening of Aqueous Solutions of Hydrophobically Modified Poly(<i>N,N</i> -dimethylacrylamide- <i>co</i> -acrylic acid). <i>Macromolecules</i> , 2010, 43, 10055-10063.	2.2	24
28	Synthesis and characterization of polyesters based on 1,1,1-[bis(4-hydroxyphenyl)-4-pentadecylphenyl]ethane. <i>Polymer International</i> , 2010, 59, 1408-1414.	1.6	23
29	Hydrophobically Modified Poly(acrylic acid) Using 3-Pentadecylcyclohexylamine: Synthesis and Rheology. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 464-472.	1.1	21
30	Synthesis and characterization of poly(amideimide)s containing pendent flexible alkoxy chains. <i>European Polymer Journal</i> , 2007, 43, 3646-3654.	2.6	20
31	Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid: synthesis and characterization. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	20
32	Polybenzimidazole-based polymeric ionic liquids (PILs): Effects of π -substitution asymmetry TM on CO ₂ permeation properties. <i>Journal of Membrane Science</i> , 2015, 493, 403-413.	4.1	20
33	Synthesis, characterization, and gas permeation properties of adamantane-containing polymers of intrinsic microporosity. <i>Journal of Polymer Science Part A</i> , 2018, 56, 16-24.	2.5	20
34	Synthesis and characterization of partially bio-based polyimides based on biphenylene-containing diisocyanate derived from vanillic acid. <i>European Polymer Journal</i> , 2018, 109, 257-264.	2.6	20
35	A new ATRP initiator for synthesis of cyclic carbonate-terminated poly(methyl methacrylate). <i>Reactive and Functional Polymers</i> , 2010, 70, 931-937.	2.0	19
36	Poly(ether urethane)s from aromatic diisocyanates based on lignin-derived phenolic acids. <i>Polymer International</i> , 2017, 66, 892-899.	1.6	19

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37	A new free-radical initiator for the syntheses of polymers with isocyanato end groups. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1983, 4, 307-311.	1.1	18
38	Temperature and pH dual stimuli responsive PCL- <i>b</i> -PNIPAAm block copolymer assemblies and the cargo release studies. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1383-1396.	2.5	16
39	Healable network polymers bearing flexible poly(lauryl methacrylate) chains <i>via</i> thermo-reversible furan-maleimide diels-alder reaction. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2700-2712.	2.5	16
40	Aromatic polyesters containing pendant azido groups: Synthesis, characterization, chemical modification and thermal cross-linking. <i>European Polymer Journal</i> , 2019, 116, 180-189.	2.6	16
41	Thermodynamic behavior of hydrophobically modified polyacrylamide containing random distribution of hydrophobes: Experimental and theoretical investigations. <i>Polymer</i> , 2013, 54, 2676-2689.	1.8	15
42	Click-chemistry-based multicomponent condensation approach for design and synthesis of spirochromene-tethered 1,2,3-triazoles as potential antitubercular agents. <i>Research on Chemical Intermediates</i> , 2017, 43, 5675-5690.	1.3	15
43	Partially bio-based poly(amide imide)s by polycondensation of aromatic diacylhydrazides based on lignin-derived phenolic acids and aromatic dianhydrides: Synthesis, characterization, and computational studies. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3636-3645.	2.5	15
44	Partially bio-based aromatic poly(ether sulfone)s bearing pendant furyl groups: synthesis, characterization and thermo-reversible cross-linking with a bismaleimide. <i>Polymer Chemistry</i> , 2019, 10, 1089-1098.	1.9	15
45	Poly(ether ether ketone)s and poly(ether ether ketone ketone)s containing cardo decahydronaphthalene groups: Synthesis and characterization. <i>Journal of Applied Polymer Science</i> , 2011, 122, 1607-1613.	1.3	14
46	A simple, economical, and environmentally benign protocol for the synthesis of 2-amino-3,5-dicarbonitrile-6-sulfanylpyridines at ambient temperature. <i>Green Chemistry Letters and Reviews</i> , 2014, 7, 228-235.	2.1	14
47	High surface area porous carbon for ultracapacitor application by pyrolysis of polystyrene containing pendant carboxylic acid groups prepared via click chemistry. <i>Materials Today Communications</i> , 2015, 4, 166-175.	0.9	14
48	Aromatic polyimides from <i>m</i> -phenylene diamines containing pendant groups: Synthesis and characterization. <i>Journal of Applied Polymer Science</i> , 2005, 97, 1377-1384.	1.3	13
49	Synthesis and characterization of new aromatic polyesters containing pendent naphthyl units. <i>Journal of Applied Polymer Science</i> , 2010, 117, 2545-2552.	1.3	13
50	Incorporation of rigid polyaromatic groups in polybenzimidazole-based polymeric ionic liquids: Assertive effects on gas permeation properties. <i>Polymer</i> , 2016, 93, 30-36.	1.8	13
51	Rapid liquid-liquid extraction of thallium(III) from succinate media with 2-octylaminopyridine in chloroform as the extractant. <i>Journal of the Serbian Chemical Society</i> , 2008, 73, 435-451.	0.4	12
52	Thermo-reversible sol-gel transition of aqueous solutions of patchy polymers. <i>RSC Advances</i> , 2017, 7, 5101-5110.	1.7	12
53	Partially biobased processable polyimides based on aromatic diamine derived from cardanol. <i>Green Materials</i> , 2017, 5, 74-84.	1.1	12
54	Intrinsically microporous polyimides containing spirobisindane and phenazine units: Synthesis, characterization and gas permeation properties. <i>Journal of Polymer Science Part A</i> , 2018, 56, 766-775.	2.5	12

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55	Polymer Supported Reagents: Facile Synthesis of β -Oxalkyl (Acetonyl) Esters of Carboxylic Acids.. Synthetic Communications, 1997, 27, 2885-2891.	1.1	11
56	Synthesis and self-assembling properties of β -hydroxy-poly(ethylene oxide) end-capped with 1-isocyanato-3-pentadecylcyclohexane. Polymer, 2008, 49, 4635-4646.	1.8	11
57	Synthesis of bis-allyloxy functionalized polystyrene and poly (methyl methacrylate) macromonomers using a new ATRP initiator. European Polymer Journal, 2011, 47, 1621-1629.	2.6	11
58	Cyanate ester resins containing pentadecyl-substituted cyclohexyl moiety: Synthesis, curing and structure-property relationship. High Performance Polymers, 2013, 25, 278-286.	0.8	11
59	New organosoluble aromatic poly(esterimide)s containing pendent pentadecyl chains. High Performance Polymers, 2013, 25, 735-743.	0.8	11
60	Synthesis and characterization of polyetherimides containing multiple ether linkages and pendent pentadecyl chains. Polymer International, 2015, 64, 1770-1778.	1.6	11
61	New poly(ether urethane)s based on lignin derived aromatic chemicals via A-B monomer approach: Synthesis and characterization. European Polymer Journal, 2015, 71, 547-557.	2.6	11
62	Design and Synthesis of Aromatic Polyesters Bearing Pendant Clickable Maleimide Groups. Journal of Polymer Science Part A, 2019, 57, 630-640.	2.5	11
63	Lithium Tetrafluoroborate Catalyzed Solventless Synthesis of β -Aminonitriles. Monatshefte für Chemie, 2007, 138, 759-762.	0.9	10
64	Aromatic aldehyde functionalized polycaprolactone and polystyrene macromonomers: Synthesis, characterization and aldehyde-aminooxy click reaction. Reactive and Functional Polymers, 2012, 72, 713-721.	2.0	10
65	Synthesis, spectroscopy, and electrochemical investigation of new conjugated polymers containing thiophene and 1,3,4-thiadiazole in the main chain. Journal of Applied Polymer Science, 2012, 125, 1882-1889.	1.3	10
66	Synthesis and characterization of poly(ether ether ketone)s and poly(ether ether ketone ketone)s containing pendant biphenyl and naphthyl groups. High Performance Polymers, 2013, 25, 260-267.	0.8	10
67	Spiro[fluorene-9,9-xanthene]-containing copolymers of intrinsic microporosity: synthesis, characterization and gas permeation properties. Reactive and Functional Polymers, 2018, 133, 153-160.	2.0	10
68	Synthesis of Triaryl Cyanurates Catalysed by Polyethylene Glycol in a Two-Phase System: Phase Transfer Catalysis. Bulletin Des Sociétés Chimiques Belges, 1995, 104, 675-677.	0.0	9
69	New poly(1,3,4-oxadiazole)s bearing pentadecyl side chains: Synthesis and characterization. Journal of Applied Polymer Science, 2012, 124, 1281-1289.	1.3	9
70	Diethylamine-catalyzed environmentally benign synthesis of 1-oxo-hexahydroxanthenes and bis-coumarins at ambient temperature. Research on Chemical Intermediates, 2016, 42, 6313-6325.	1.3	9
71	Aromatic polyesters containing pendent 4-(phenylsulfonyl)phenyl groups: synthesis and characterization. Journal of Polymer Research, 2017, 24, 1.	1.2	9
72	A new pyrene cored small organic molecule with a flexible alkyl spacer: a potential solution processable blue emitter with bright photoluminescence. New Journal of Chemistry, 2017, 41, 11383-11390.	1.4	9

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73	Synthesis and characterization of polyhydrazides and poly(1,3,4-oxadiazole)s containing multiple arylene ether linkages and pendent pentadecyl chains. <i>High Performance Polymers</i> , 2017, 29, 836-848.	0.8	9
74	Thermally Crosslinkable and Chemically Modifiable Aromatic Polyesters Possessing Pendant Propargyloxy Groups. <i>Journal of Polymer Science Part A</i> , 2019, 57, 588-597.	2.5	9
75	Aromatic polycarbonates bearing pendant maleimide groups via functional monomer approach: synthesis and characterization. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	9
76	Efficient Method for Synthesis of Methylene Diesters Using Polyethylene Glycol as a Phase Transfer Catalyst. <i>Synthetic Communications</i> , 1997, 27, 1703-1710.	1.1	8
77	A facile strategy for synthesis of ϵ -heterobifunctionalized poly(ϵ -caprolactones) and poly(methyl methacrylate) by ring-opening polymerization approach. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2091-2103.	2.5	8
78	A convenient synthesis of ϵ -homo- and ϵ -hetero-bifunctionalized poly(ϵ -caprolactone)s by ring opening polymerization: The potentially valuable precursors for miktoarm star copolymers. <i>Journal of Polymer Science Part A</i> , 2016, 54, 844-860.	2.5	8
79	Clickable polyurethanes based on 1,3,5-triazine ring containing aromatic diisocyanate bearing pendent alkyne group: Synthesis and postmodification. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1008-1020.	2.5	8
80	Aromatic polyesters containing cardo perhydrocumyl cyclohexylidene groups: Synthesis, characterization and gas permeation study. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2019, 56, 136-145.	1.2	8
81	Polyamides containing quinoxaline moiety. <i>Journal of Polymer Research</i> , 2011, 18, 549-557.	1.2	7
82	Phenothiazine-Based Dyes for Highly Efficient Dye-Sensitized Solar Cells: Effect of Internal Acceptor and Non-Conjugated Spacer on Device Performance. <i>ChemPlusChem</i> , 2017, 82, 280-286.	1.3	7
83	Design, synthesis, and gas permeation properties of polyimides containing pendent imidazolium groups. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1721-1729.	2.5	7
84	A New Approach for the Synthesis of Miktoarm Star Polymers Through a Combination of Thiol-Epoxy Click-Chemistry and ATRP/Ring-Opening Polymerization Techniques. <i>Journal of Polymer Science Part A</i> , 2019, 57, 146-156.	2.5	7
85	Highly reproducible, simple and selective analytical method for extractive UV-visible spectrophotometric determination of ruthenium(III): Analysis of catalyst, fissium alloy and sequential separation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 243, 118814.	2.0	7
86	Partially bio-based furyl-functionalized organosoluble poly(ether ether ketone)s. <i>Polymer International</i> , 2021, 70, 1038-1047.	1.6	7
87	Partially bio-based triarylamine-containing polyimides: Synthesis, characterization and evaluation in non-volatile memory device applications. <i>European Polymer Journal</i> , 2021, 147, 110327.	2.6	7
88	Cardol: Cashew nut shell liquid (CNSL) - derived starting material for the preparation of partially bio-based epoxy resins. <i>European Polymer Journal</i> , 2022, 166, 111029.	2.6	7
89	Polyimides based on aromatic diisocyanates containing pendent flexible alkoxy chains and aromatic dianhydrides: Synthesis, characterization, and liquid crystal alignment properties. <i>Journal of Applied Polymer Science</i> , 2009, 112, 461-472.	1.3	6
90	Synthesis and properties of poly(arylene ether)s based on 3-pentadecyl 4,4'-biphenol. <i>Polymer International</i> , 2016, 65, 567-576.	1.6	6

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91	Step-Growth Polymers from Cashew Nut Shell Liquid (CNSL)-Based Aromatic Difunctional Monomers. , 2017, , 163-214.		6
92	Bentonite κ -Clay κ -Supported Cuprous Iodide Nanoparticles (BENT κ -CuI NPs): A New Heterogeneous Catalyst in Diversity κ -Oriented Synthesis of 1, 2, 3 κ -Triazoles in Aqueous Medium. ChemistrySelect, 2019, 4, 7144-7150.	0.7	6
93	A new cardo bisphenol monomer containing pendant azido group and the resulting aromatic polyesters. Journal of Polymer Science Part A, 2019, 57, 1516-1526.	2.5	6
94	Hydrophobically modified poly(vinyl alcohol) using alkoxy-substituted methyl gallate: Synthesis and rheology. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1054-1063.	2.4	5
95	A Simple Method for Synthesis of Methylene Dioximes Using Poly(ethylene glycol) κ 400 as a Phase Transfer Catalyst. Synthetic Communications, 2004, 34, 4483-4486.	1.1	4
96	Phenazine-containing poly(phenylenevinylene): a new polymer with impressive field emission properties. Journal of Polymer Research, 2018, 25, 1.	1.2	4
97	Synthesis and Characterization of Partially Biobased Aromatic (Co)polycarbonates Containing Biphenylene Units and Pendant Pentadecyl Chains. Macromolecular Chemistry and Physics, 2022, 223, .	1.1	3
98	polyimides containing s-triazine rings in the main chain: Synthesis and characterization. Polymer International, 1993, 30, 305-308.	1.6	2
99	Copolyesters Containing Oxyethylene Linkages: Synthesis and Characterization. Journal of Macromolecular Science - Pure and Applied Chemistry, 1995, 32, 1071-1076.	1.2	2
100	Modulation of charge carrier mobility by side-chain engineering of bi(thienylenevinylene)thiophene containing PPE κ PPVs. RSC Advances, 2016, 6, 51642-51648.	1.7	2
101	Sulfamic acid-catalyzed, environmentally benign synthesis of bis-tetronic acids at ambient temperature. Research on Chemical Intermediates, 2017, 43, 141-152.	1.3	2
102	Post-polymerization modifiable aromatic (co)poly(ether sulfone)s possessing pendant norbornenyl groups based upon a new bisphenol. European Polymer Journal, 2022, 176, 111431.	2.6	2
103	Thermoresponsive and Biodegradable Dextran Based Microgels: Synthesis and Structural Investigation. Macromolecular Symposia, 2013, 329, 27-34.	0.4	1
104	A new atom transfer radical polymerization initiator based on phenolphthalein for the synthesis of bis-allyloxy functionalized polystyrene macromonomers. Polymer International, 2015, 64, 413-420.	1.6	1
105	Editorial: Latest advances from India. Green Materials, 2017, 5, 44-45.	1.1	1
106	Mechanism of the formation of microphase separated water clusters in a water-mediated physical network of perfluoropolyether tetraol. Soft Matter, 2018, 14, 2339-2345.	1.2	1