

Prakash P Wadgaonkar

List of Publications by Year in descending order

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106
papers

2,240
citations

257101

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276539

41
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106
all docs

106
docs citations

106
times ranked

2583
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardo: 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
2	Synthesis and Characterization of Partially Biobased Aromatic (Co)polycarbonates Containing Biphenylene Units and Pendant Pentadecyl Chains. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	1.1	3
3	Post-polymerization modifiable aromatic (co)poly(ether sulfone)s possessing pendant norbornenyl groups based upon a new bisphenol. <i>European Polymer Journal</i> , 2022, 176, 111431.	2.6	2
4	Partially bio-based furyl-functionalized organosoluble poly(ether ether ketone)s. <i>Polymer International</i> , 2021, 70, 1038-1047.	1.6	7
5	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
6	Highly reproducible, simple and selective analytical method for extractive UV-visible spectrophotometric determination of ruthenium(III): Analysis of catalyst, fission alloy and sequential separation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 243, 118814.	2.0	7
7	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
8	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
9	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
10	Bentonite -Clay -Supported Cuprous Iodide Nanoparticles (BENT-CuI NPs): A New Heterogeneous Catalyst in Diversity -Oriented Synthesis of 1, 2, 3-Triazoles in Aqueous Medium. <i>ChemistrySelect</i> , 2019, 4, 7144-7150.	0.7	6
11	A new cardo bisphenol monomer containing pendant azido group and the resulting aromatic polyesters. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1516-1526.	2.5	6
12	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
13	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
14	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
15	Design and Synthesis of Aromatic Polyesters Bearing Pendant Clickable Maleimide Groups. <i>Journal of Polymer Science Part A</i> , 2019, 57, 630-640.	2.5	11
16	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
17	Mechanism of the formation of microphase separated water clusters in a water-mediated physical network of perfluoropolyether tetraol. <i>Soft Matter</i> , 2018, 14, 2339-2345.	1.2	1
18	Phenazine-containing poly(phenylenevinylene): a new polymer with impressive field emission properties. <i>Journal of Polymer Research</i> , 2018, 25, 1.	1.2	4

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19	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
20	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
21	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
22	Spiro[fluorene-9,9'-xanthene]-containing copolymers of intrinsic microporosity: synthesis, characterization and gas permeation properties. <i>Reactive and Functional Polymers</i> , 2018, 133, 153-160.	2.0	10
23	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
24	Sulfamic acid-catalyzed, environmentally benign synthesis of bis-tetronic acids at ambient temperature. <i>Research on Chemical Intermediates</i> , 2017, 43, 141-152.	1.3	2
25	Clickable polyurethanes based on 1,2,4-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
26	Thermo-reversible sol-gel transition of aqueous solutions of patchy polymers. <i>RSC Advances</i> , 2017, 7, 5101-5110.	1.7	12
27	Poly(ether urethane)s from aromatic diisocyanates based on lignin-derived phenolic acids. <i>Polymer International</i> , 2017, 66, 892-899.	1.6	19
28	Step-Growth Polymers from Cashew Nut Shell Liquid (CNSL)-Based Aromatic Difunctional Monomers. , 2017, , 163-214.		6
29	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
30	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
31	Partially biobased processable polyimides based on aromatic diamine derived from cardanol. <i>Green Materials</i> , 2017, 5, 74-84.	1.1	12
32	Healable network polymers bearing flexible poly(lauryl methacrylate) chains via thermo-reversible furan-maleimide diels-alder reaction. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2700-2712.	2.5	16
33	Aromatic polyesters containing pendent 4-(phenylsulfonyl)phenyl groups: synthesis and characterization. <i>Journal of Polymer Research</i> , 2017, 24, 1.	1.2	9
34	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
35	A new pyrene cored small organic molecule with a flexible alkyl spacer: a potential solution processable blue emitter with bright photoluminescence. <i>New Journal of Chemistry</i> , 2017, 41, 11383-11390.	1.4	9
36	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

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37	Phenothiazine-Based "A" "A" "A" Dyes for Highly Efficient Dye-Sensitized Solar Cells: Effect of Internal Acceptor and Non-Conjugated "S" Spacer on Device Performance. <i>ChemPlusChem</i> , 2017, 82, 280-286.	1.3	7
38	Editorial: Latest advances from India. <i>Green Materials</i> , 2017, 5, 44-45.	1.1	1
39	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
40	Modulation of charge carrier mobility by side-chain engineering of bi(thienylenevinylene)thiophene containing PPE-PPVs. <i>RSC Advances</i> , 2016, 6, 51642-51648.	1.7	2
41	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
42	Problem Solving and Environmentally Benign Approach toward Diversity Oriented Synthesis of Novel 2-Amino-3-phenyl (or Alkyl) Sulfonyl-4H-chromenes at Ambient Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3450-3464.	3.2	36
43	A convenient synthesis of β -hydroxy- α -amino and β -hydroxy- α -hetero-bifunctionalized poly(ϵ -caprolactone)s by ring opening polymerization: The potentially valuable precursors for mikroarm star copolymers. <i>Journal of Polymer Science Part A</i> , 2016, 54, 844-860.	2.5	8
44	Diethylamine-catalyzed environmentally benign synthesis of 1-oxo-hexahydroxanthenes and bis-coumarins at ambient temperature. <i>Research on Chemical Intermediates</i> , 2016, 42, 6313-6325.	1.3	9
45	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
46	Synthesis and characterization of polyetherimides containing multiple ether linkages and pendent pentadecyl chains. <i>Polymer International</i> , 2015, 64, 1770-1778.	1.6	11
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	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
49	New poly(ether urethane)s based on lignin derived aromatic chemicals via A-B monomer approach: Synthesis and characterization. <i>European Polymer Journal</i> , 2015, 71, 547-557.	2.6	11
50	Polybenzimidazole-based polymeric ionic liquids (PILs): Effects of α -substitution asymmetry TM on CO ₂ permeation properties. <i>Journal of Membrane Science</i> , 2015, 493, 403-413.	4.1	20
51	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
52	A new atom transfer radical polymerization initiator based on phenolphthalein for the synthesis of bis-allyloxy functionalized polystyrene macromonomers. <i>Polymer International</i> , 2015, 64, 413-420.	1.6	1
53	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
54	Functionalization of cardanol: towards biobased polymers and additives. <i>Polymer Chemistry</i> , 2014, 5, 3142-3162.	1.9	372

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55	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
56	Fluorescent polymeric ionic liquids for the detection of nitroaromatic explosives. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13983.	5.2	46
57	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
58	Nickel ferrite nanoparticlesâ€“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
59	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
60	Pyrene based conjugated materials: synthesis, characterization and electroluminescent properties. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23320-23328.	1.3	26
61	Thermoresponsive and Biodegradable Dextran Based Microgels: Synthesis and Structural Investigation. <i>Macromolecular Symposia</i> , 2013, 329, 27-34.	0.4	1
62	Synthesis and characterization of poly(ether ether ketone)s and poly(ether ether ketone ketone)s containing pendant biphenyl and naphthyl groups. <i>High Performance Polymers</i> , 2013, 25, 260-267.	0.8	10
63	Cyanate ester resins containing pentadecyl-substituted cyclohexyl moiety: Synthesis, curing and structureâ€“property relationship. <i>High Performance Polymers</i> , 2013, 25, 278-286.	0.8	11
64	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
65	A facile strategy for synthesis of β -hydroxy ester terminated heterobifunctionalized poly(ϵ -caprolactones) and poly(methyl methacrylate) approach. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2091-2103.	1.0784314	8
66	New organosoluble aromatic poly(esterimide)s containing pendent pentadecyl chains. <i>High Performance Polymers</i> , 2013, 25, 735-743.	0.8	11
67	Aromatic aldehyde functionalized polycaprolactone and polystyrene macromonomers: Synthesis, characterization and aldehydeâ€“aminoxy click reaction. <i>Reactive and Functional Polymers</i> , 2012, 72, 713-721.	2.0	10
68	Synthesis, spectroscopy, and electrochemical investigation of new conjugated polymers containing thiophene and 1,3,4-thiadiazole in the main chain. <i>Journal of Applied Polymer Science</i> , 2012, 125, 1882-1889.	1.3	10
69	New poly(1,3,4-oxadiazole)s bearing pentadecyl side chains: Synthesis and characterization. <i>Journal of Applied Polymer Science</i> , 2012, 124, 1281-1289.	1.3	9
70	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
71	Synthesis of bis-allyloxy functionalized polystyrene and poly(methyl methacrylate) macromonomers using a new ATRP initiator. <i>European Polymer Journal</i> , 2011, 47, 1621-1629.	2.6	11
72	Polyamides containing quinoxaline moiety. <i>Journal of Polymer Research</i> , 2011, 18, 549-557.	1.2	7

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73	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
74	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
75	Synthesis and characterization of organo-soluble poly(ether ether ketone)s and poly(ether ether) Tj ETQq1 1 0.784314 rgBT /Overlo 3689-3695.	1.3	27
76	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
77	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
78	Poly(amideimide)s containing pendant pentadecyl chains: Synthesis and characterization. <i>Polymer Degradation and Stability</i> , 2010, 95, 837-844.	2.7	27
79	Synthesis and characterization of aromatic polyazomethines bearing pendant pentadecyl chains. <i>Polymer Degradation and Stability</i> , 2010, 95, 1727-1735.	2.7	30
80	Synthesis and characterization of new aromatic polyesters containing cardo decahydronaphthalene groups. <i>European Polymer Journal</i> , 2010, 46, 709-718.	2.6	36
81	Synthesis and characterization of polyamides containing pendant pentadecyl chains. <i>European Polymer Journal</i> , 2010, 46, 557-567.	2.6	58
82	Regularly alternating poly(amideimide)s containing pendent pentadecyl chains: Synthesis and characterization. <i>European Polymer Journal</i> , 2010, 46, 1307-1315.	2.6	33
83	Hydrophobically modified poly(vinyl alcohol) using alkoxy-substituted methyl gallate: Synthesis and rheology. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1054-1063.	2.4	5
84	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
85	Abrupt Shear Thickening of Aqueous Solutions of Hydrophobically Modified Poly(<i>N,N</i> -dimethylacrylamide-co-acrylic acid). <i>Macromolecules</i> , 2010, 43, 10055-10063.	2.2	24
86	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
87	Synthesis and characterization of new polyimides containing pendent pentadecyl chains. <i>European Polymer Journal</i> , 2009, 45, 582-589.	2.6	53
88	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
89	Synthesis and self-assembling properties of 1,3-hydroxy-poly(ethylene oxide) end-capped with 1-isocyanato-3-pentadecylcyclohexane. <i>Polymer</i> , 2008, 49, 4635-4646.	1.8	11
90	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

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91	Synthesis and characterization of new aromatic polyesters containing biphenyl side groups. Journal of Applied Polymer Science, 2007, 106, 3105-3110.	1.3	24
92	Synthesis and liquid-crystal-aligning properties of novel aromatic poly(amide imide)s bearing n-alkoxy side chains. Journal of Applied Polymer Science, 2007, 105, 1793-1801.	1.3	28
93	Synthesis and characterization of poly(amideimide)s containing pendent flexible alkoxy chains. European Polymer Journal, 2007, 43, 3646-3654.	2.6	20
94	Lithium Tetrafluoroborate Catalyzed Solventless Synthesis of α -Aminonitriles. Monatshefte für Chemie, 2007, 138, 759-762.	0.9	10
95	Aromatic polyimides from m-phenylene diamines containing pendant groups: Synthesis and characterization. Journal of Applied Polymer Science, 2005, 97, 1377-1384.	1.3	13
96	Hydrophobically Modified Poly(acrylic acid) Using 3-Pentadecylcyclohexylamine: Synthesis and Rheology. Macromolecular Chemistry and Physics, 2005, 206, 464-472.	1.1	21
97	Synthesis and characterization of aromatic polyamides containing ans-triazine ring with thiophenoxy linkages. Polymer International, 2005, 54, 569-575.	1.6	31
98	A Simple Method for Synthesis of Methylene Dioximes Using Poly(ethylene glycol) 400 as a Phase Transfer Catalyst. Synthetic Communications, 2004, 34, 4483-4486.	1.1	4
99	Efficient Method for Synthesis of Methylene Diesters Using Polyethylene Glycol as a Phase Transfer Catalyst. Synthetic Communications, 1997, 27, 1703-1710.	1.1	8
100	Polymer Supported Reagents: Facile Synthesis of α -Oxalkyl (Acetonyl) Esters of Carboxylic Acids.. Synthetic Communications, 1997, 27, 2885-2891.	1.1	11
101	Copolymerization of methyl methacrylate with lauryl methacrylate using group transfer polymerization. Journal of Polymer Science Part A, 1997, 35, 1999-2007.	2.5	25
102	Copolyesters Containing Oxyethylene Linkages: Synthesis and Characterization. Journal of Macromolecular Science - Pure and Applied Chemistry, 1995, 32, 1071-1076.	1.2	2
103	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
104	polyimides containing s-triazine rings in the main chain: Synthesis and characterization. Polymer International, 1993, 30, 305-308.	1.6	2
105	Synthesis and properties of polyurethanes containing s-triazine rings in the main chain. Journal of Polymer Science Part A, 1989, 27, 3263-3269.	2.5	25
106	A new free-radical initiator for the syntheses of polymers with isocyanato end groups. Die Makromolekulare Chemie Rapid Communications, 1983, 4, 307-311.	1.1	18