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## Applied Significance of Polyimides

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#	Paper	IF	Citations
58	Investigation of tribological properties of Al <sub>2</sub> O <sub>3</sub> -polyimide nanocomposites. <i>Polymer Testing</i> , <b>2003</b> , 22, 875-882	4.5	94
57	Glow-Discharge-Induced Sublimation of Polyimide Precursor Monomers: A Systematic Study. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 2394-2403	9.6	8
56	Copolyimide imidization induced by far-infrared radiation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 2154-2160	2.6	7
55	Studies on polyimide imidization in far-infrared radiation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 3621-3627	2.6	12
54	Synthesis, Structures and Properties of Polyimide Based on 2,2'-Bis(4-aminophenoxy phenyl) Propane. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2006</b> , 43, 1825-1833	2.2	8
53	Organo-Soluble Fluorinated Polyimides Derived from Bis-Trifluoromethyl-Substituted Aromatic Diamines and Various Aromatic Dianhydrides. <i>High Performance Polymers</i> , <b>2006</b> , 18, 851-865	1.6	11
52	Novel soluble aromatic poly(amideimide)s containing 9,9-diphenylfluorene moieties: characterization and optical properties. <i>Open Chemistry</i> , <b>2006</b> , 4, 604-619	1.6	5
51	Preparation and properties of T300 carbon fiber-reinforced thermoplastic polyimide composites. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 102, 646-654	2.9	12
50	Properties of Binary Polyimide Blends Containing Hexafluoroisopropylidene Group. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2007</b> , 44, 55-63	2.2	18
49	Mechanical and thermal properties of polyimide/silica hybrids with imide-modified silica network structures. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 107, 1257-1268	2.9	39
48	Comparative studies of newly synthesized azo-dyes bearing poly(esterimide)s with their poly(etherimide) analogues. Light-induced optical anisotropy. <i>Optical Materials</i> , <b>2008</b> , 31, 405-411	3.3	26
47	Amination of octafluoronaphthalene in liquid ammonia. <i>Journal of Fluorine Chemistry</i> , <b>2008</b> , 129, 253-260.	1	24
46	Preparation and Properties of M40 Carbon Fiber-Reinforced Thermoplastic Polyimide Composites. <i>Journal of Thermoplastic Composite Materials</i> , <b>2008</b> , 21, 525-542	1.9	1
45	Polyimide molecular composites containing a stiff-chain polymer derived from 1,5-diaminonaphthalene and pyromellitic dianhydride. <i>Polymer Composites</i> , <b>2009</b> , 31, NA-NA	3	1
44	Poly(amide imides) and poly(ether imides) containing 1,3,4-oxadiazole or pyridine rings: characterizations and optical properties. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 1481-8	2.8	38
43	Preparation of PMDA/ODA polyimide membrane for use as substrate in a thermally stable composite reverse osmosis membrane. <i>Journal of Membrane Science</i> , <b>2010</b> , 363, 140-148	9.6	53
42	Analysis of structure and properties of active carbons and their copolymeric precursors. <i>Applied Surface Science</i> , <b>2010</b> , 256, 5355-5360	6.7	5

41	In situ thermal preparation of polyimide nanocomposite films containing functionalized graphene sheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 3702-8	9.5	188
40	Polyimides: Synthesis Properties, Characterization and Applications. <b>2011</b> , 211-288		
39	Physical, optical and gas transport properties of new processable polyimides and poly(amideimide)s obtained from 4,4'-[oxybis(4,1-phenylenethio)]dianiline and aromatic dianhydrides. <i>Polymer Journal</i> , <b>2011</b> , 43, 621-629	2.7	11
38	Thermal properties of porous copolymers of BM-DVB and their carbonization products. <i>New Carbon Materials</i> , <b>2011</b> , 26, 137-144	4.4	3
37	Synthesis and characterization of hybrid organic/inorganic materials based on sulphonated polyamideimide and silica. <i>Journal of Polymer Research</i> , <b>2011</b> , 18, 965-973	2.7	7
36	Synthesis and properties of organosoluble polyimides based on novel perfluorinated monomer hexafluoro-2,4-toluenediamine. <i>Journal of Fluorine Chemistry</i> , <b>2011</b> , 132, 207-215	2.1	25
35	Preparation, mechanical and thermal properties of functionalized graphene/polyimide nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2012</b> , 43, 1537-1545	8.4	143
34	Transparent polyimide/graphene oxide nanocomposite with improved moisture barrier property. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 136, 247-253	4.4	129
33	Effects of the aliphatic/aromatic structure on the miscibility, thermal, optical, and rheological properties of some polyimide blends. <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 1429-1439	2.3	13
32	Transparent polyimide nanocomposites with improved moisture barrier using graphene. <i>Polymer International</i> , <b>2013</b> , 62, 1302-1309	3.3	36
31	Step-Growth Polymerization. <b>2013</b> , 41-63		2
30	Development of novel coatable compatibilized polyimide-modified silica nanocomposites. <i>Journal of Polymer Research</i> , <b>2014</b> , 21, 1	2.7	6
29	Using shock waves to improve the sound absorbing efficiency of closed-cell foams. <i>Applied Acoustics</i> , <b>2014</b> , 79, 110-116	3.1	6
28	Crystal associates of 18-crown-6 and polyfluoro(het)arylenediamines: structure, properties, and selectivity of formation. <i>Russian Chemical Bulletin</i> , <b>2015</b> , 64, 1746-1756	1.7	7
27	Selective mono- and diamination of some polyhalogenbenzenes in anhydrous ammonia. <i>Journal of Fluorine Chemistry</i> , <b>2015</b> , 180, 98-102	2.1	5
26	Recent progress in synthesis of fluorine containing monomers for polyimides. <i>Journal of Fluorine Chemistry</i> , <b>2015</b> , 180, 45-54	2.1	45
25	A novel synthesis method for an open-cell micro sponge polyimide for heat insulation. <i>Polymer</i> , <b>2015</b> , 56, 68-72	3.9	19
24	Mechanical, thermal and dielectric properties of graphene oxide/polyimide resin composite. <i>High Performance Polymers</i> , <b>2016</b> , 28, 1033-1042	1.6	38

23	Investigation of thermal properties and mechanical properties of reduced graphene oxide/polyimide resin composites. <i>Polymer Composites</i> , <b>2017</b> , 38, 2321-2331	3	8
22	Effect of annealing on the performance of nickel thermistor on polyimide substrate. <i>Thin Solid Films</i> , <b>2017</b> , 632, 28-34	2.2	7
21	Polyimides with side groups: Synthesis and effects of side groups on their properties. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 533-559	2.5	65
20	Review on effect of chemical, thermal, additive treatment on mechanical properties of basalt fiber and their composites. <i>Journal of the Mechanical Behavior of Materials</i> , <b>2017</b> , 26, 205-211	1.9	15
19	A review on mechanical and water absorption properties of polyvinyl alcohol based composites/films. <i>Journal of the Mechanical Behavior of Materials</i> , <b>2017</b> , 26, 213-222	1.9	48
18	Noncovalent Functionalized Graphene-Filled Polyimides with Improved Thermal, Mechanical, and Wear Resistance Properties. <i>Tribology Letters</i> , <b>2018</b> , 66, 1	2.8	9
17	Synthesis and properties of polyimides derived from bis-(Aminophenoxy) containing naphthalene, [Phenyl] propane and [Methyl] cyclohexane segment and 4, 4'-carbonyldipthalic anhydride. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2018</b> , 55, 519-525	2.2	3
16	Functional Polyimide-Based Electrospun Fibers for Biomedical Application. <i>Materials</i> , <b>2019</b> , 12,	3.5	13
15	Molecular design, synthesis and characterization of intrinsically black polyimide films with high thermal stability and good electrical properties. <i>Journal of Polymer Research</i> , <b>2019</b> , 26, 1	2.7	11
14	Flexible MEMS Shear Stress Sensor with Improved Performance for Wind Tunnel Measurements. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, B756-B760	3.9	0
13	Microstructure Evolution and Lifetime Extension Mechanism of Sn-Added Fe-Based Pre-Alloy Brazing Coating in Diamond Tools. <i>Coatings</i> , <b>2019</b> , 9, 364	2.9	2
12	Recent Trends on Transparent Colorless Polyimides with Balanced Thermal and Optical Properties: Design and Synthesis. <i>Macromolecular Chemistry and Physics</i> , <b>2019</b> , 220, 1800313	2.6	58
11	Synthesis and Characterization of Organo-Soluble Polyimides Derived from Alicyclic Dianhydrides and a Dihydroxyl-Functionalized Spirobisindane Diamine. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 63-69	4.3	14
10	SIMULATION OF SURFACE CHARGE DISSIPATION OF INSULATING BACKSHEETS FOR FLEXIBLE PHOTOVOLTAIC MODULE UNDER VARIOUS TEMPERATURE CONDITIONS. <i>Surface Review and Letters</i> , <b>2020</b> , 27, 1950230	1.1	1
9	Synthesis of Organosoluble Polyimides and Optical Fiber Protective Coatings on Their Basis. <i>Polymer Science - Series B</i> , <b>2020</b> , 62, 39-46	0.8	2
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6	Synthesis and Properties of Polyimide Composites Containing Graphene Oxide Via In-Situ Polymerization. <i>Carbon Letters</i> , <b>2012</b> , 13, 230-235	2.3	20

5	Microcellular Polyimide Foams: Fabrication and Characterization. <b>2016</b> , 317-339		
4	Molecular Composites Based on Polyimides. <i>Polymer Science - Series C</i> , <b>2020</b> , 62, 183-195	1.1	1
3	Fabrication and mechanical, electrical properties study of polyimide films curing at low-temperature condition assisted by microwave. <i>High Performance Polymers</i> , 095400832211003	1.6	0
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