

Ali rpan

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111
papers

3,017
citations

27
h-index

51
g-index

115
ext. papers

3,234
ext. citations

4.2
avg, IF

5.06
L-index

#	Paper	IF	Citations
111	The First Truly All-Polymer Electrochromic Devices. <i>Advanced Materials</i> , 2003 , 15, 1338-1341	24	341
110	Spray Coatable Electrochromic Dioxythiophene Polymers with High Coloration Efficiencies. <i>Macromolecules</i> , 2004 , 37, 7559-7569	5.5	287
109	Donor-Acceptor Poly(thiophene-block-perylene diimide) Copolymers: Synthesis and Solar Cell Fabrication. <i>Macromolecules</i> , 2009 , 42, 1079-1082	5.5	286
108	Electrochromic devices based on soluble and processable dioxythiophene polymers. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2422		148
107	Synthesis and photophysical property of well-defined donor-acceptor diblock copolymer based on regioregular poly(3-hexylthiophene) and fullerene. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1483		119
106	Transparent and flexible supercapacitors with single walled carbon nanotube thin film electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15434-9	9.5	105
105	Power conversion efficiency enhancement of organic solar cells by addition of gold nanostars, nanorods, and nanospheres. <i>Organic Electronics</i> , 2013 , 14, 1720-1727	3.5	84
104	Microporous Patterned Electrodes for Color-Matched Electrochromic Polymer Displays. <i>Chemistry of Materials</i> , 2004 , 16, 2386-2393	9.6	71
103	Optimizing the organic solar cell efficiency: Role of the active layer thickness. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 113, 100-105	6.4	53
102	Synthesis and characterization of conducting polymers containing polypeptide and ferrocene side chains as ethanol biosensors. <i>Polymer Chemistry</i> , 2014 , 5, 6295-6306	4.9	46
101	Conducting graft copolymers of poly(3-methylthienyl methacrylate) with pyrrole and thiophene. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 4131-4140	2.5	45
100	A novel and effective surface design: conducting polymer/ β -cyclodextrin host-guest system for cholesterol biosensor. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18290-300	9.5	44
99	Electrochromic and optical studies of solution processable benzotriazole and fluorene containing copolymers. <i>Organic Electronics</i> , 2011 , 12, 202-209	3.5	44
98	Electrochemical and optical studies of furan and thieno[3,2-b]thiophene end capped benzotriazole derivatives. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 5603-5610	2.5	43
97	Optimizing OLED Efficacy of 2,7-Diconjugated 9,9-Dialkylfluorenes by Variation of Periphery Substitution and Conjugation Length. <i>Advanced Functional Materials</i> , 2007 , 17, 115-122	15.6	42
96	Immobilization of invertase in conducting copolymers of 3-methylthienyl methacrylate. <i>Bioelectrochemistry</i> , 2003 , 59, 29-33	5.6	41
95	Optical and electroluminescent properties of polyfluorene copolymers and their blends. <i>Polymer</i> , 2005 , 46, 811-817	3.9	34

94	All-Organic Electrochromic Supercapacitor Electrodes. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2805-A2810	3.9	33
93	Highly efficient polymer blends from a polyfluorene derivative and PVK for LEDs. <i>Polymer</i> , 2009 , 50, 6057-6064	3.9	33
92	Preparation of metallic line patterns from functional block copolymers. <i>Small</i> , 2009 , 5, 1343-8	11	32
91	Conducting polymers of terephthalic acid bis-(2-thiophen-3-yl-ethyl) ester and their electrochromic properties. <i>Polymer</i> , 2004 , 45, 4989-4995	3.9	32
90	Solution processable benzotriazole and fluorene containing copolymers for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 99, 321-326	6.4	30
89	Dual type complementary colored polymer electrochromic devices utilized by 3-ester substituted thiophenes. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 572, 61-65	4.1	30
88	Synthesis and electrochemical properties of a new benzimidazole derivative as the acceptor unit in donor-acceptor-donor type polymers. <i>Electrochimica Acta</i> , 2012 , 67, 224-229	6.7	29
87	Fused structures in the polymer backbone to investigate the photovoltaic and electrochromic properties of donor-acceptor-type conjugated polymers. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 1933-1941	2.5	28
86	Optimizing LED Properties of 2,7-Bis(phenylethenyl)fluorenes. <i>Chemistry of Materials</i> , 2006 , 18, 560-566	9.6	28
85	Conducting polymers of octanoic acid 2-thiophen-3-yl-ethyl ester and their electrochromic properties. <i>Materials Chemistry and Physics</i> , 2005 , 92, 413-418	4.4	28
84	Silver Nanowire/Conducting Polymer Nanocomposite Electrochromic Supercapacitor Electrodes. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A721-A727	3.9	27
83	A novel architecture based on a conducting polymer and calixarene derivative: its synthesis and biosensor construction. <i>RSC Advances</i> , 2015 , 5, 35940-35947	3.7	27
82	Novel Poly(phenylene vinylenes) with Well-Defined Poly(ϵ -caprolactone) or Polystyrene as Lateral Substituents: Synthesis and Characterization. <i>Macromolecules</i> , 2007 , 40, 5301-5310	5.5	27
81	Synthesis and optical properties of light-emitting π -conjugated polymers containing biphenyl and dithienosilole. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 2048-2058	2.5	24
80	Synthesis and characterization of a bifunctional amido-thiophene monomer and its copolymer with thiophene and electrochemical properties. <i>European Polymer Journal</i> , 2005 , 41, 967-973	5.2	24
79	High stability of benzotriazole and benzodithiophene containing medium band-gap polymer solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 433-444	6.4	22
78	Benzotriazole and benzothiadiazole containing conjugated copolymers for organic solar cell applications. <i>Polymer</i> , 2012 , 53, 1198-1202	3.9	22
77	Dual-type electrochromic devices based on conducting copolymers of thiophene-functionalized monomers. <i>Synthetic Metals</i> , 2005 , 148, 65-69	3.6	22

76	Synthesis and electroactivity of pyrrole end-functionalized poly(2-methyl-2-oxazoline). <i>European Polymer Journal</i> , 2001 , 37, 2225-2229	5.2	22
75	Thieno[3,2-b]thiophene as π -bridge at different acceptor systems for electrochromic applications. <i>Polymer</i> , 2014 , 55, 3093-3099	3.9	21
74	A Novel Blue to Transparent Polymer for Electrochromic Supercapacitor Electrodes. <i>Electroanalysis</i> , 2018 , 30, 266-273	3	21
73	A new high-performance blue to transmissive electrochromic material and use of silver nanowire network electrodes as substrates. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 1680-1686	2.5	20
72	Silafluorene-based polymers for electrochromic and polymer solar cell applications. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 1541-1547	2.5	20
71	Construction of electrochromic devices using thiophene based conducting polymers. <i>Journal of Materials Science</i> , 2007 , 42, 368-372	4.3	20
70	Synthesis, characterization, and electrochromic properties of conducting poly(hexanedioic acid bis-(2-thiophen-3-yl-ethyl ester) and its copolymer with thiophene. <i>Synthetic Metals</i> , 2004 , 146, 91-97	3.6	20
69	Synthesis and spectroelectrochemistry of dithieno(3,2-b:2',3'-d)pyrrole derivatives. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	19
68	Synthesis and characterization of conducting copolymers of thiophene-3-yl acetic acid cholesteryl ester with pyrrole. <i>Journal of Materials Science</i> , 2002 , 37, 1767-1775	4.3	19
67	Benzotriazole and benzodithiophene containing medium band gap polymer for bulk heterojunction polymer solar cell applications. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 528-535	2.5	18
66	Electrochemical and optical properties of solution processable benzotriazole and benzothiadiazole containing copolymers. <i>Synthetic Metals</i> , 2012 , 162, 79-84	3.6	18
65	Luminescence of Molecular and Block Copolymeric 2,7-Bis(phenylethenyl)-fluorenones; Identifying Green-Band Emitter Sites in a Fluorene-Based Luminophore. <i>Chemistry of Materials</i> , 2007 , 19, 3265-3270	9.6	18
64	2,1,3-Benzooxadiazole, thiophene and benzodithiophene based random copolymers for organic photovoltaics: thiophene versus thieno[3,2-b]thiophene as π -conjugated linkers. <i>New Journal of Chemistry</i> , 2016 , 40, 10455-10464	3.6	17
63	Synthesis of a benzotriazole bearing alternating copolymer for organic photovoltaic applications. <i>New Journal of Chemistry</i> , 2015 , 39, 6623-6630	3.6	16
62	Efficient light emitting diodes from polyfluorene copolymer blends. <i>Synthetic Metals</i> , 2005 , 150, 195-198	3.6	16
61	Leakage current by Frenkel-Poole emission on benzotriazole and benzothiadiazole based organic devices. <i>Materials Science in Semiconductor Processing</i> , 2014 , 28, 84-88	4.3	15
60	Synthesis and characterization of conducting copolymers of succinic acid bis-(4-pyrrol-1-yl-phenyl) ester and their electrochromic properties. <i>Synthetic Metals</i> , 2004 , 143, 49-58	3.6	15
59	Electroluminescence of (styrene-co-acrylic acid) ionomer/conjugated MEH-PPV blends. <i>Synthetic Metals</i> , 2008 , 158, 219-225	3.6	14

58	Effect of layer thickness on the electrical parameters and conduction mechanisms of conjugated polymer-based heterojunction diode. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	13
57	Effect of substituent groups on quinoxaline-based random copolymers on the optoelectronic and photovoltaic properties. <i>Polymer</i> , 2016 , 101, 208-216	3.9	13
56	Conducting polymers of succinic acid bis-(2-thiophen-3-yl-ethyl)ester and their electrochromic properties. <i>Synthetic Metals</i> , 2006 , 156, 190-195	3.6	13
55	Multipurpose selenophene containing conjugated polymers for optoelectronic applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2017 , 54, 133-139	2.2	12
54	Indium tin oxide nanoparticles as anode for light-emitting diodes. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 3125-3129	2.9	12
53	A Novel Near-IR Effective Pyrene-Based Donor-Acceptor Electrochrome. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 829-836	2.6	11
52	White light emitting devices by doping polyfluorene with two red emitters. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 253, 45-51	4.7	11
51	Immobilization of cholesterol oxidase in a conducting copolymer of thiophene-3-yl acetic acid cholesteryl ester with pyrrole. <i>Designed Monomers and Polymers</i> , 2003 , 6, 237-243	3.1	11
50	Benzodithiophene and Benzotriazole Bearing Conjugated Polymers for Electrochromic and Organic Solar Cell Applications. <i>Journal of the Electrochemical Society</i> , 2017 , 164, G71-G76	3.9	10
49	Associative behaviour and effect of functional groups on the fluorescence of graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 7559-7569	3.6	10
48	Efficient benzodithiophene and thienopyrroledione containing random polymers as components for organic solar cells. <i>Polymer</i> , 2017 , 133, 60-67	3.9	10
47	The Main Electrical and Interfacial Properties of Benzotriazole and Fluorene Based Organic Devices. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2013 , 50, 168-174	2.2	10
46	New conjugated materials containing cyano substituents for light-emitting diodes. <i>Synthetic Metals</i> , 2006 , 156, 282-286	3.6	10
45	A triazoloquinoxaline and benzodithiophene bearing low band gap copolymer for electrochromic and organic photovoltaic applications. <i>Synthetic Metals</i> , 2017 , 228, 111-119	3.6	9
44	Photo- and electroluminescent behavior of Eu ³⁺ ions in blends with poly(vinyl-carbazole). <i>Journal of the Brazilian Chemical Society</i> , 2007 , 18, 330-336	1.5	9
43	Electrochemical Properties of Perylene Diimide (PDI) and Benzotriazole (Btz) Bearing Conjugated Polymers to Investigate the Effect of Bridge on Electrochemical Properties. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2015 , 52, 1-9	2.2	8
42	Effect of Dithienopyrrole Unit on Electrochromic and Optical Properties of Benzotriazole-Based Conjugated Polymers. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1885-1891	2.6	8
41	Emission tuning study of RGB blends. Interaction of two EL polymers and a red dye. <i>Current Applied Physics</i> , 2010 , 10, 365-369	2.6	8

40	Luminescence of fluorenes 2,7-conjugatively extended with pyrenylvinylene and pyrenylvinylene-phenylenevinylene. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3030		8
39	Triphenylamine Based Random Copolymers: The Effect of Molecular Weight on Performance of Solar Cell and Optoelectronic Properties. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1600544	2.6	7
38	Conjugated polymers with benzothiadiazole and benzotriazole moieties for polymer solar cells. <i>Renewable Energy</i> , 2019 , 139, 1184-1193	8.1	7
37	A biosensor platform based on amine functionalized conjugated benzenediamine-benzodithiophene polymer for testosterone analysis. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49332	2.9	7
36	Incorporation of different conjugated linkers into low band gap polymers based on 5,6-Bis(octyloxy)-2,1,3 benzooxadiazole for tuning optoelectronic properties. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 2459-2467	2.5	7
35	Efficient blue-green-emitting poly[(5-diphenylamino-1,3-phenylenevinylene)-alt-(2,5-dihexyloxy-1,4-phenylenevinylene)] derivatives: Synthesis and optical properties. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 2307-2315	2.5	7
34	A comprehensive study: Theoretical and experimental investigation of heteroatom and substituent effects on frontier orbitals and polymer solar cell performances. <i>Journal of Polymer Science</i> , 2020 , 58, 2792-2806	2.4	7
33	Selenophene as a Bridge in Molecular Architecture of Benzotriazole Containing Conjugated Copolymers to Gain Insight on Optical and Electrochemical Properties of Polymers. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2015 , 190, 1294-1306	1	6
32	Narrow band gap benzodithiophene and quinoxaline bearing conjugated polymers for organic photovoltaic applications. <i>Dyes and Pigments</i> , 2020 , 180, 108479	4.6	6
31	Structure-property relations in donor-acceptor-donor type benzimidazole containing conjugated polymers. <i>Journal of Materials Science</i> , 2014 , 49, 225-231	4.3	6
30	Synthesis and electrochromic properties of trans-stilbene bearing copolymers obtained with different repeat unit and chain length. <i>Electrochimica Acta</i> , 2013 , 100, 110-117	6.7	6
29	Synthesis of bistrisphenylamine- and benzodithiophene-based random conjugated polymers for organic photovoltaic applications. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 3705-3715	2.5	6
28	Conducting polymers of decanedioic acid bis-(4-pyrrol-1-yl-phenyl) ester. <i>Materials Chemistry and Physics</i> , 2004 , 85, 222-226	4.4	6
27	Electrical characteristics of organic heterojunction with an alternating benzotriazole and fluorene containing copolymer. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 18816-18831	2.1	6
26	Alkyl-end phenanthroimidazole modification of benzotriazole based conjugated polymers for optoelectronic applications. <i>Synthetic Metals</i> , 2018 , 244, 1-9	3.6	6
25	Graphene oxide-doped PEDOT:PSS as hole transport layer in inverted bulk heterojunction solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 3576-3584	2.1	5
24	Photo- and electroluminescent properties of a conjugated copolymer containing 2,2'-bipyridyl units. <i>Polymer International</i> , 2007 , 56, 252-257	3.3	5
23	Efficient light emitting diodes from ternary blends of PPV-based copolymers. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 2509-2511	2.9	5

22	Enzyme electrodes for determination of total phenolic capacity of red wines. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 521-524	2.9	5
21	Synthesis and characterization of optical, electrochemical and photovoltaic properties of selenophene bearing benzodithiophene based alternating polymers. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 862, 114014	4.1	4
20	Medium band gap polymer based solution-processed high- κ composite gate dielectrics for ambipolar OFET. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 125104	3	4
19	Poly((2-alkylbenzo[1,2,3]triazole-4,7-diyl)vinylene)s for organic solar cells. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1539-1545	2.6	4
18	Analysis of temperature-dependent forward and leakage conduction mechanisms in organic thin film heterojunction diode with fluorine-based PCBM blend. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 15233-15242	2.1	4
17	Indenoquinoxalinone based conjugated polymer substrate for laccase biosensor. <i>Materials Chemistry and Physics</i> , 2021 , 257, 123788	4.4	4
16	Non-fullerene organic photovoltaics based on thienopyrroledione comprising random copolymers; effect of alkyl chains. <i>Renewable Energy</i> , 2021 , 178, 202-211	8.1	4
15	Syntheses and Optical Properties of Perfluorophenyl Containing Benzimidazole Derivatives: The Effect of Donor Units. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2015 , 52, 510-516 ^{2.2}	2.2	3
14	Synthesis, electrochromic characterization and solar cell application of thiophene bearing alternating copolymers with azobenzene and coumarin subunits. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2020 , 57, 589-599	2.2	3
13	Syntheses, electrochemical and photophysical properties of biphenyl containing conjugated copolymers. <i>Polymer</i> , 2013 , 54, 2243-2249	3.9	3
12	Characteristics of dual-type electrochromic devices based on poly(ethylene oxide) copolymers. <i>Polymer International</i> , 2007 , 56, 674-678	3.3	3
11	Synthesis and Characterization of Thiophen-3-yl Acetic Acid 4-Pyrrol-1-yl Phenyl Ester and its Conducting Polymers. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2005 , 54, 713-730	3	3
10	Syntheses and Characterization of Benzotriazole, Thienopyrroledione, and Benzodithiophene Containing Conjugated Random Terpolymers for Organic Solar Cells. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H849-H859	3.9	3
9	A novel multi-electrochromic polymer based on selenophene and benzotriazole via electrochemical and chemical polymerization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2019 , 56, 197-205	2.2	2
8	Thiadiazoloquinoline and benzodithiophene bearing polymers for electrochromic and organic photovoltaic applications. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019 , 194, 937-946	1	1
7	A multi-functional fluorescent scaffold as a multi-colour probe: design and application in targeted cell imaging. <i>RSC Advances</i> , 2015 , 5, 83361-83367	3.7	1
6	Novel benzodithiophene type low band gap polymer solar cell application and device stability study with atomic layer deposition encapsulation technique. <i>Materials Research Express</i> , 2019 , 6, 105108	1.7	1
5	Dielectric and electrical properties of an organic device containing benzotriazole and fluorene bearing copolymer. <i>Journal of Applied Polymer Science</i> , 2012 , 128, n/a-n/a	2.9	1

4	Effect of thiophene, 3-hexylthiophene, selenophene, and Thieno[3,2-b]thiophene spacers on OPV device performance of novel 2,1,3-benzothiadiazole based alternating copolymers. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 895, 115483	4.1	1
3	Synthesis of selenophene substituted benzodithiophene and fluorinated benzothiadiazole based conjugated polymers for organic solar cell applications. <i>Electrochimica Acta</i> , 2021 , 139298	6.7	1
2	Investigation the effect of bridge and side chain on photovoltaic properties of benzodithiophene and quinoxaline based conjugated polymers. <i>European Polymer Journal</i> , 2022 , 169, 111141	5.2	0
1	Enhancing the power conversion efficiency of polymer solar cells via selection of quinoxaline substituents. <i>New Journal of Chemistry</i> , 2017 , 41, 14635-14645	3.6	