

Ali Aarpan

List of Publications by Year in descending order

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114
papers

3,487
citations

186265

28
h-index

155660

55
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115
all docs

115
docs citations

115
times ranked

4044
citing authors

#	ARTICLE	IF	CITATIONS
1	The First Truly All-Polymer Electrochromic Devices. <i>Advanced Materials</i> , 2003, 15, 1338-1341.	21.0	376
2	Spray Coatable Electrochromic Dioxothiophene Polymers with High Coloration Efficiencies. <i>Macromolecules</i> , 2004, 37, 7559-7569.	4.8	324
3	Donor π -Acceptor Poly(thiophene- <i>block</i> -perylene diimide) Copolymers: Synthesis and Solar Cell Fabrication. <i>Macromolecules</i> , 2009, 42, 1079-1082.	4.8	305
4	Electrochromic devices based on soluble and processable dioxothiophene polymers Electronic supplementary information (ESI) available: details of the synthesis of PProDOT(CH ₂ OC ₁₈ H ₃₇) ₂ and PProDOT(CH ₂ OEtHx) ₂ and their polymerization. See http://www.rsc.org/suppdata/jm/b3/b306365h/ . <i>Journal of Materials Chemistry</i> , 2003, 13, 2422.	6.7	156
5	Transparent and Flexible Supercapacitors with Single Walled Carbon Nanotube Thin Film Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15434-15439.	8.0	131
6	Synthesis and photophysical property of well-defined donor π -acceptor diblock copolymer based on regioregular poly(3-hexylthiophene) and fullerene. <i>Journal of Materials Chemistry</i> , 2009, 19, 1483.	6.7	125
7	Power conversion efficiency enhancement of organic solar cells by addition of gold nanostars, nanorods, and nanospheres. <i>Organic Electronics</i> , 2013, 14, 1720-1727.	2.6	99
8	Microporous Patterned Electrodes for Color-Matched Electrochromic Polymer Displays. <i>Chemistry of Materials</i> , 2004, 16, 2386-2393.	6.7	79
9	Optimizing the organic solar cell efficiency: Role of the active layer thickness. <i>Solar Energy Materials and Solar Cells</i> , 2013, 113, 100-105.	6.2	65
10	Synthesis and characterization of conducting polymers containing polypeptide and ferrocene side chains as ethanol biosensors. <i>Polymer Chemistry</i> , 2014, 5, 6295-6306.	3.9	52
11	Conducting graft copolymers of poly(3-methylthienyl methacrylate) with pyrrole and thiophene. <i>Journal of Polymer Science Part A</i> , 2002, 40, 4131-4140.	2.3	51
12	Electrochromic and optical studies of solution processable benzotriazole and fluorene containing copolymers. <i>Organic Electronics</i> , 2011, 12, 202-209.	2.6	49
13	A Novel and Effective Surface Design: Conducting Polymer/ β -Cyclodextrin Host π -Guest System for Cholesterol Biosensor. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18290-18300.	8.0	49
14	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.	14.9	47
15	Electrochemical and optical studies of furan and thieno[3,2- <i>b</i>]thiophene end capped benzotriazole derivatives. <i>Journal of Polymer Science Part A</i> , 2010, 48, 5603-5610.	2.3	45
16	Immobilization of invertase in conducting copolymers of 3-methylthienyl methacrylate. <i>Bioelectrochemistry</i> , 2003, 59, 29-33.	4.6	42
17	All-Organic Electrochromic Supercapacitor Electrodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2805-A2810.	2.9	39
18	Silver Nanowire/Conducting Polymer Nanocomposite Electrochromic Supercapacitor Electrodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, A721-A727.	2.9	39

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19	Highly efficient polymer blends from a polyfluorene derivative and PVK for LEDs. <i>Polymer</i> , 2009, 50, 6057-6064.	3.8	38
20	Optical and electroluminescent properties of polyfluorene copolymers and their blends. <i>Polymer</i> , 2005, 46, 811-817.	3.8	36
21	A novel architecture based on a conducting polymer and calixarene derivative: its synthesis and biosensor construction. <i>RSC Advances</i> , 2015, 5, 35940-35947.	3.6	36
22	Conducting polymers of terephthalic acid bis-(2-thiophen-3-yl-ethyl) ester and their electrochromic properties. <i>Polymer</i> , 2004, 45, 4989-4995.	3.8	35
23	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.	4.0	35
24	Dual type complementary colored polymer electrochromic devices utilized by 3-ester substituted thiophenes. <i>Journal of Electroanalytical Chemistry</i> , 2004, 572, 61-65.	3.8	34
25	Preparation of Metallic Line Patterns from Functional Block Copolymers. <i>Small</i> , 2009, 5, 1343-1348.	10.0	34
26	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.	2.3	34
27	Solution processable benzotriazole and fluorene containing copolymers for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2012, 99, 321-326.	6.2	33
28	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.	5.2	32
29	Optimizing LED Properties of 2,7-Bis(phenylethenyl)fluorenes. <i>Chemistry of Materials</i> , 2006, 18, 560-566.	6.7	29
30	Novel Poly(phenylene vinylenes) with Well-Defined Poly(μ -caprolactone) or Polystyrene as Lateral Substituents: Synthesis and Characterization. <i>Macromolecules</i> , 2007, 40, 5301-5310.	4.8	28
31	Thieno[3,2-b]thiophene as π -bridge at different acceptor systems for electrochromic applications. <i>Polymer</i> , 2014, 55, 3093-3099.	3.8	28
32	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.	2.3	27
33	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.	5.4	26
34	A Novel Blue to Transparent Polymer for Electrochromic Supercapacitor Electrodes. <i>Electroanalysis</i> , 2018, 30, 266-273.	2.9	26
35	Synthesis and electroactivity of pyrrole end-functionalized poly(2-methyl-2-oxazoline). <i>European Polymer Journal</i> , 2001, 37, 2225-2229.	5.4	25

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37	Dual-type electrochromic devices based on conducting copolymers of thiophene-functionalized monomers. <i>Synthetic Metals</i> , 2005, 148, 65-69.	3.9	25
38	Silafluorene-based polymers for electrochromic and polymer solar cell applications. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1541-1547.	2.3	24
39	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.	2.3	24
40	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.	6.2	24
41	Benzotriazole and benzothiadiazole containing conjugated copolymers for organic solar cell applications. <i>Polymer</i> , 2012, 53, 1198-1202.	3.8	23
42	Synthesis and spectroelectrochemistry of dithieno(3,2-b:2',3'-d)pyrrole derivatives. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	22
43	Construction of electrochromic devices using thiophene based conducting polymers. <i>Journal of Materials Science</i> , 2007, 42, 368-372.	3.7	21
44	Title is missing!. <i>Journal of Materials Science</i> , 2002, 37, 1767-1775.	3.7	20
45	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.	2.3	20
46	Electrochemical and optical properties of solution processable benzotriazole and benzothiadiazole containing copolymers. <i>Synthetic Metals</i> , 2012, 162, 79-84.	3.9	19
47	Synthesis of a benzotriazole bearing alternating copolymer for organic photovoltaic applications. <i>New Journal of Chemistry</i> , 2015, 39, 6623-6630.	2.8	19
48	2,1,3-Benzoxadiazole, 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.	2.8	19
49	Conjugated polymers with benzothiadiazole and benzotriazole moieties for polymer solar cells. <i>Renewable Energy</i> , 2019, 139, 1184-1193.	8.9	19
50	Efficient light emitting diodes from polyfluorene copolymer blends. <i>Synthetic Metals</i> , 2005, 150, 195-198.	3.9	18
51	Conducting polymers of succinic acid bis-(2-thiophen-3-yl-ethyl)ester and their electrochromic properties. <i>Synthetic Metals</i> , 2006, 156, 190-195.	3.9	18
52	Luminescence of Molecular and Block Copolymeric 2,7-Bis(phenylethenyl)-fluorenes; Identifying Green-Band Emitter Sites in a Fluorene-Based Luminophore. <i>Chemistry of Materials</i> , 2007, 19, 3265-3270.	6.7	18
53	Leakage current by Frenkel-Poole emission on benzotriazole and benzothiadiazole based organic devices. <i>Materials Science in Semiconductor Processing</i> , 2014, 28, 84-88.	4.0	16
54	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, .	2.6	16

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55	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.	3.9	15
56	Electroluminescence of (styrene-co-acrylic acid) ionomer/conjugated MEH-PPV blends. <i>Synthetic Metals</i> , 2008, 158, 219-225.	3.9	15
57	White light emitting devices by doping polyfluorene with two red emitters. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 253, 45-51.	3.9	14
58	Effect of substituent groups on quinoxaline-based random copolymers on the optoelectronic and photovoltaic properties. <i>Polymer</i> , 2016, 101, 208-216.	3.8	14
59	Multipurpose selenophene containing conjugated polymers for optoelectronic applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2017, 54, 133-139.	2.2	14
60	A biosensor platform based on amine functionalized conjugated benzenediamine-benzodithiophene polymer for testosterone analysis. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49332.	2.6	14
61	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	13
62	A triazoloquinoxaline and benzodithiophene bearing low band gap copolymer for electrochromic and organic photovoltaic applications. <i>Synthetic Metals</i> , 2017, 228, 111-119.	3.9	13
63	Benzodithiophene and Benzotriazole Bearing Conjugated Polymers for Electrochromic and Organic Solar Cell Applications. <i>Journal of the Electrochemical Society</i> , 2017, 164, G71-G76.	2.9	13
64	Narrow band gap benzodithiophene and quinoxaline bearing conjugated polymers for organic photovoltaic applications. <i>Dyes and Pigments</i> , 2020, 180, 108479.	3.7	13
65	Indium tin oxide nanoparticles as anode for light-emitting diodes. <i>Journal of Applied Polymer Science</i> , 2006, 99, 3125-3129.	2.6	12
66	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.	2.2	12
67	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.	1.6	11
68	New conjugated materials containing cyano substituents for light-emitting diodes. <i>Synthetic Metals</i> , 2006, 156, 282-286.	3.9	11
69	Effect of Dithienopyrrole Unit on Electrochromic and Optical Properties of Benzotriazole-Based Conjugated Polymers. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 1885-1891.	2.2	11
70	A Novel Near-IR Effective Pyrene-Based Donor-Acceptor Electrochrome. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 829-836.	2.2	11
71	Efficient benzodithiophene and thienopyrroledione containing random polymers as components for organic solar cells. <i>Polymer</i> , 2017, 133, 60-67.	3.8	11
72	Associative behaviour and effect of functional groups on the fluorescence of graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7559-7569.	2.8	11

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73	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.	3.8	11
74	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.	2.2	11
75	Indenoquinaxalinone based conjugated polymer substrate for laccase biosensor. <i>Materials Chemistry and Physics</i> , 2021, 257, 123788.	4.0	11
76	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.	0.6	10
77	Electrochemical Properties of Perylene Diimide (PDI) and Benzotriazole (Btz) Bearing Conjugated Polymers to Investigate the Effect of Å-Bridge on Electrochemical Properties. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2015, 52, 1-9.	2.2	10
78	Alkyl-end phenanthroimidazole modification of benzotriazole based conjugated polymers for optoelectronic applications. <i>Synthetic Metals</i> , 2018, 244, 1-9.	3.9	10
79	Luminescence of fluorenes 2,7-conjugatively extended with pyrenylvinylene and pyrenylvinylene-phenylenevinylene. <i>Journal of Materials Chemistry</i> , 2007, 17, 3030.	6.7	9
80	Incorporation of different conjugated linkers into low band gap polymers based on 5,6-Bis(octyloxy)-2,1,3 benzoxadiazole for tuning optoelectronic properties. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2459-2467.	2.3	9
81	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.	2.2	9
82	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.	2.2	9
83	Emission tuning study of RGB blends. Interaction of two EL polymers and a red dye. <i>Current Applied Physics</i> , 2010, 10, 365-369.	2.4	8
84	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.	3.8	8
85	Synthesis of selenophene substituted benzodithiophene and fluorinated benzothiadiazole based conjugated polymers for organic solar cell applications. <i>Electrochimica Acta</i> , 2021, 398, 139298.	5.2	8
86	Non-fullerene organic photovoltaics based on thienopyrroledione comprising random copolymers; effect of alkyl chains. <i>Renewable Energy</i> , 2021, 178, 202-211.	8.9	8
87	Conducting polymers of decanedioic acid bis-(4-pyrrol-1-yl-phenyl) ester. <i>Materials Chemistry and Physics</i> , 2004, 85, 222-226.	4.0	7
88	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.	2.3	7
89	Dielectric and electrical properties of an organic device containing benzotriazole and fluorene bearing copolymer. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1659-1664.	2.6	7
90	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.	5.2	7

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91	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.	2.3	7
92	Photo- and electroluminescent properties of a π -conjugated copolymer containing 2,2'-bipyridyl units. <i>Polymer International</i> , 2007, 56, 252-257.	3.1	6
93	Structure-property relations in donor-acceptor donor type benzimidazole containing conjugated polymers. <i>Journal of Materials Science</i> , 2014, 49, 225-231.	3.7	6
94	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	6
95	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.	2.8	6
96	Selenophene-containing conjugated polymers for supercapacitor electrodes. <i>Journal of Polymer Science</i> , 2022, 60, 109-121.	3.8	6
97	Investigation the effect of π bridge and side chain on photovoltaic properties of benzodithiophene and quinoxaline based conjugated polymers. <i>European Polymer Journal</i> , 2022, 169, 111141.	5.4	6
98	Enzyme electrodes for determination of total phenolic capacity of red wines. <i>Journal of Applied Polymer Science</i> , 2005, 98, 521-524.	2.6	5
99	Efficient light emitting diodes from ternary blends of PPV-based copolymers. <i>Journal of Applied Polymer Science</i> , 2006, 102, 2509-2511.	2.6	5
100	Syntheses, electrochemical and photophysical properties of biphenyl containing conjugated copolymers. <i>Polymer</i> , 2013, 54, 2243-2249.	3.8	5
101	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.	2.1	5
102	Thiadiazoloquinoxaline and benzodithiophene bearing polymers for electrochromic and organic photovoltaic applications. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019, 194, 937-946.	1.6	5
103	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.	2.9	5
104	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	4
105	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	4
106	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.	3.8	4
107	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.	3.4	3
108	Characteristics of dual-type electrochromic devices based on poly(ethylene oxide) copolymers. <i>Polymer International</i> , 2007, 56, 674-678.	3.1	3

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109	Syntheses and Optical Properties of Perfluorophenyl Containing Benzimidazole Derivatives: The Effect of Donor Units. Journal of Macromolecular Science - Pure and Applied Chemistry, 2015, 52, 510-516.	2.2	3
110	A multi-functional fluorescent scaffold as a multi-colour probe: design and application in targeted cell imaging. RSC Advances, 2015, 5, 83361-83367.	3.6	2
111	Novel benzodithiophene type low band gap polymer solar cell application and device stability study with atomic layer deposition encapsulation technique. Materials Research Express, 2019, 6, 105108.	1.6	2
112	Syntheses of novel fluorinated dibenzo[<i>a,c</i>]phenazine comprising polymers for electrochromic device applications. New Journal of Chemistry, 2022, 46, 14826-14839.	2.8	2
113	Enhancing the power conversion efficiency of polymer solar cells via selection of quinoxaline substituents. New Journal of Chemistry, 2017, 41, 14635-14645.	2.8	1
114	Photo- and electroluminescence behavior of biphenyl derivative in blends with poly(vinylcarbazole). Turkish Journal of Chemistry, 2013, , .	1.2	0