

Metin Ak

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

2,381
citations

30
h-index

41
g-index

116
ext. papers

2,676
ext. citations

4.1
avg, IF

5.53
L-index

#	Paper	IF	Citations
110	Experimental and theoretical investigation of the substitution effects on N-substituted carbazole derivatives functionalized with azomethine bonds. <i>Reactive and Functional Polymers</i> , 2022 , 172, 105180	4.6	0
109	Naphthalimide clicked polycarbazoles: Synthesis, characterization, and investigation of their optical, electrochemical and spectroelectrochemical properties. <i>Synthetic Metals</i> , 2022 , 285, 117031	3.6	0
108	Rational design of an all-in-one monomer to obtain black-to-highly transmissive electrochromic polymer. <i>Electrochimica Acta</i> , 2022 , 404, 139761	6.7	1
107	In Situ Electrochemical Production of Metal-organic Hybrid Composite Film from Nickel Containing Polyoxometalate and 3,4-Ethylenedioxy-thiophene for Sensor Application. <i>Electroanalysis</i> , 2021 , 33, 2023-2032	3.3	0
106	Quantum mechanical calculations of different monomeric structures with the same electroactive group to clarify the relationship between structure and ultimate optical and electrochemical properties of their conjugated polymers. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 149, 109720	3.9	5
105	Novel nonperipheral octa-3-hydroxypropylthio substituted metallo-phthalocyanines: synthesis, characterization, and investigation of their electrochemical, photochemical and computational properties. <i>Turkish Journal of Chemistry</i> , 2021 , 45, 143-156	1	0
104	Amperometric detection of glucose and H ₂ O ₂ using peroxide selective electrode based on carboxymethylcellulose/polypyrrole and Prussian Blue nanocomposite. <i>Materials Today Communications</i> , 2021 , 26, 101839	2.5	5
103	An Innovative Sensor Construction Strategy via LbL Assembly for the Detection of H ₂ O ₂ Based on the Sequential In Situ Growth of Prussian Blue Nanoparticles in CMC-PANI Composite Film. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 076509	3.9	1
102	Enzyme-free detection of hydrogen peroxide with a hybrid transducing system based on sodium carboxymethyl cellulose, poly(3,4-ethylenedioxythiophene) and prussian blue nanoparticles. <i>Analytica Chimica Acta</i> , 2021 , 1172, 338664	6.6	4
101	Effects of electroactive group and enzyme crosslinkers numbers on analytical performance for conductive polymer-based sensor platforms. <i>Reactive and Functional Polymers</i> , 2021 , 168, 105038	4.6	0
100	Purpald containing poly(2,5-dithienylpyrrole)-based multifunctional conducting polymer: synthesis, characterization, and electrochromic properties. <i>Ionics</i> , 2020 , 26, 3501-3511	2.7	4
99	Designing sandwich-type single-layer graphene decorated by copper nanoparticles for enhanced sensing properties. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 255105	3	5
98	Synthesis and electropolymerization of a multifunctional naphthalimide clicked carbazole derivative. <i>Polymer International</i> , 2020 , 69, 265-273	3.3	3
97	Thermal degradation kinetics and thermodynamics of maleimide-styrene based alternating copolymer: A comparative investigation of monomer and polymer structures. <i>Journal of Molecular Structure</i> , 2020 , 1221, 128879	3.4	1
96	Synthesis and electrochemical characterization of a new benzodioxocine-fused poly(N-methylpyrrole) derivative: a joint experimental and DFT study. <i>New Journal of Chemistry</i> , 2020 , 44, 18929-18941	3.6	1
95	Phthalocyanine-cored conductive polymer design: effect of substitution pattern and chalcogen nature on optical and electrical properties of Zn(II)-phthalocyanine-cored polycarbazoles. <i>Materials Today Chemistry</i> , 2020 , 18, 100360	6.2	1
94	Synthesis of a carbazole substituted unusual cobalt(II)dioxime complex to design conducting polymers with caged metal centers for enhanced optical and electrical properties. <i>New Journal of Chemistry</i> , 2020 , 44, 18616-18624	3.6	0

93	A solution-processable electrochromic polymer designed with Reactive Yellow 160 and 2-hydroxy carbazole. <i>Organic Electronics</i> , 2019 , 75, 105436	3.5	8
92	Current trends in the development of conducting polymers-based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 118, 264-276	14.6	72
91	Optical and Electrical Properties of Monolacunary Keggin-Type Polyoxometalate/Star-Shaped Polycarbazole Nanocomposite Film. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H313-H319	3.9	4
90	An Electrochemical Sensor Platform for Sensitive Detection of Iron (III) Ions Based on Pyrene-Substituted Poly(2,5-dithienylpyrrole). <i>Journal of the Electrochemical Society</i> , 2019 , 166, B291-B298	3.9	17
89	Non-Enzymatic Electrochemical Detection of Glucose by Mixed-Valence Cobalt Containing Keggin Polyoxometalate/Multi-Walled Carbon Nanotube Composite. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B205-B211	3.9	15
88	CONDUCTING POLYMER COATED SMART TEXTILES. <i>TEXTEH Proceedings</i> , 2019 , 2019, 158-161	0.1	3
87	Use of the monodisperse Pt/Ni@rGO nanocomposite synthesized by ultrasonic hydroxide assisted reduction method in electrochemical nonenzymatic glucose detection. <i>Materials Science and Engineering C</i> , 2019 , 99, 951-956	8.3	56
86	Investigation of rGO and chitosan effects on optical and electrical properties of the conductive polymers for advanced applications. <i>Electrochimica Acta</i> , 2019 , 295, 1044-1051	6.7	24
85	A new way to obtain black electrochromism: appropriately covering whole visible regions by absorption spectra of copolymers composed of EDOT and carbazole derivatives. <i>Smart Materials and Structures</i> , 2019 , 28, 025013	3.4	9
84	An eco-friendly method to enhance optical and electrical properties of conducting polymers by means of carboxymethyl cellulose. <i>Cellulose</i> , 2019 , 26, 2541-2555	5.5	12
83	A new colorimetric sensor for Cu ²⁺ detection based on s-triazine cored amino carbazole. <i>Materials Research Express</i> , 2019 , 6, 025504	1.7	4
82	Donor-Acceptor Type Super-Structural Triazine Cored Conducting Polymer Containing Carbazole and Quinoline for High-Contrast Electrochromic Device. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H316-H323	3.9	20
81	Use of Super-Structural Conducting Polymer as Functional Immobilization Matrix in Biosensor Design. <i>Journal of the Electrochemical Society</i> , 2018 , 165, B22-B26	3.9	24
80	Disulfide-linked symmetric N-alkyl carbazole derivative as a new electroactive monomer for electrochromic applications. <i>Synthetic Metals</i> , 2018 , 244, 120-127	3.6	9
79	An effective non-enzymatic biosensor platform based on copper nanoparticles decorated by sputtering on CVD graphene. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 1501-1507	8.5	28
78	Experimental and Theoretical Investigations of an Electrochromic Azobenzene and 3,4-Ethylenedioxythiophene-based Electrochemically Formed Polymeric Semiconductor. <i>ChemPhysChem</i> , 2018 , 19, 2735-2740	3.2	15
77	Poly (dithienylpyrrole) / Keggin type (nBu ₄ N) ₃ [PW ₉ O ₃₄ (tBuSiOH) ₃] hybrid material: Enhanced optical and electrical properties of conjugated polymers via polyoxometalates. <i>Synthetic Metals</i> , 2018 , 244, 54-60	3.6	4
76	Multifunctional Surface Design by Carbazole and Fluorescein Functionalized Conducting Polymer: High-Contrast Electrochromic Devices Application. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H437-H445	3.9	12

75	Comparative Investigation of Peripheral and Nonperipheral Zinc Phthalocyanine-Based Polycarbazoles in Terms of Optical, Electrical, and Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21654-21665	9.5	36
74	Synthesis of highly branched conducting polymer architecture for electrochromic applications. <i>Polymer</i> , 2018 , 134, 187-195	3.9	32
73	Fabrication of Multifunctional 2,5-Di(2-Thienyl) Pyrrole Based Conducting Copolymer for Further Sensor and Optoelectronic Applications. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H941-H953	3.9	8
72	Trilacunary Keggin Type Polyoxometalate-Conducting Polymer Composites for Amperometric Glucose Detection. <i>Journal of the Electrochemical Society</i> , 2018 , 165, B638-B643	3.9	19
71	Copolymer based multifunctional conducting polymer film for fluorescence sensing of glucose. <i>Methods and Applications in Fluorescence</i> , 2018 , 6, 035012	3.1	17
70	Conjugated and Fluorescent Polymer Based on Dansyl-Substituted Carbazole: Investigation of Electrochromic and Ion Sensitivity Performance. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, P211-P216	2	12
69	Carbon Based Nanomaterials for High Performance Optoelectrochemical Systems. <i>ChemistrySelect</i> , 2017 , 2, 1548-1555	1.8	27
68	Asymmetric Star-Shaped Functionalized Triazine Architecture and Its Electrochromic Device Application. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H463-H469	3.9	15
67	Electrochemistry of Secondary Amine Substituted 2,5-di(2-thienyl)pyrrole Derivative and Its Copolymer. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H421-H429	3.9	11
66	Optoelectrochromic characterization and smart windows application of bi-functional amid substituted thienyl pyrrole derivative. <i>Polymer</i> , 2017 , 118, 40-48	3.9	23
65	High Contrast Electrochromic Polymer and Copolymer Materials Based on Amide-Substituted Poly(Dithienyl Pyrrole). <i>Journal of the Electrochemical Society</i> , 2017 , 164, H11-H20	3.9	24
64	Theoretical investigation of triazine based a star shape pyrrole monomer. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2017 , 54, 16-23	2.2	4
63	Enhanced optical and electrical properties of PEDOT via nanostructured carbon materials: A comparative investigation. <i>Nano Structures Nano Objects</i> , 2017 , 11, 13-19	5.6	42
62	Synthesis of Rhodamine and Carbazole Based Conductive Polymer for Fluorescence and Electrochromic Applications. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H509-H514	3.9	7
61	Synthesis and Fluorescence Properties of Carbazole Based Asymmetric Functionalized Star Shaped Polymer. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H49-H55	3.9	19
60	A Fluorescence and Electroactive Surface Design: Electropolymerization of Dansyl Fluorophore Functionalized PEDOT. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H925-H930	3.9	6
59	Simple and rapid synthesis of conducting metallopolymers, their electrochemical characterizations and application in electrochromics. <i>Journal of Organometallic Chemistry</i> , 2017 , 851, 248-253	2.3	6
58	Rhodamine functionalized conducting polymers for dual intention: electrochemical sensing and fluorescence imaging of cells. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 7118-7125	7.3	14

57	Rhodamine-based conjugated polymers: potentiometric, colorimetric and voltammetric sensing of mercury ions in aqueous medium. <i>Analyst, The</i> , 2017 , 142, 3407-3415	5	30
56	Efficient synthesis of EDOT modified ABBB-type unsymmetrical zinc phthalocyanine: optoelectrochromic and glucose sensing properties of its copolymerized film. <i>New Journal of Chemistry</i> , 2017 , 41, 14080-14087	3.6	32
55	Zinc(II) phthalocyanine fused in peripheral positions octa-substituted with alkyl linked carbazole: Synthesis, electropolymerization and its electro-optic and biosensor applications. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 202-209	11.8	49
54	Enhancing biosensor properties of conducting polymers via copolymerization: Synthesis of EDOT-substituted bis(2-pyridylimino)isoindolato-palladium complex and electrochemical sensing of glucose by its copolymerized film. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 81-88	11.8	62
53	Processable Amide Substituted 2,5-Bis(2-thienyl)pyrrole Based Conducting Polymer and Its Fluorescent and Electrochemical Properties. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H1096-H1103	3.9	17
52	Transparent-Blue Colored Dual Type Electrochromic Device: Switchable Glass Application of Conducting Organic-Inorganic Hybrid Carbazole Polymer. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H679-H683	3.9	21
51	Smart window application of a new hydrazide type SNS derivative. <i>RSC Advances</i> , 2016 , 6, 1744-1749	3.7	30
50	An Amide Substituted Dithienylpyrrole Based Copolymer: Its Electrochromic Properties. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H59-H66	3.9	27
49	Smart windows application of carbazole and triazine based star shaped architecture. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 21659-67	3.6	38
48	Synthesis of new ferrocenyldithiophosphonate derivatives: electrochemical, electrochromic, and optical properties. <i>Designed Monomers and Polymers</i> , 2016 , 19, 429-436	3.1	7
47	The effect of the monomer feed ratio and applied potential on copolymerization: investigation of the copolymer formation of ferrocene-functionalized metallopolymer and EDOT. <i>Designed Monomers and Polymers</i> , 2016 , 19, 545-552	3.1	20
46	A soluble and fluorescent new type thienylpyrrole based conjugated polymer: optical, electrical and electrochemical properties. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14401-7	3.6	17
45	Synthesis and Computational Bandgap Engineering of New 3,4-Alkylenedioxy-pyrrole (ADOP) Derivatives and Investigation of Their Electrochromic Properties. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H896-H905	3.9	11
44	Synthesis of a novel, fluorescent, electroactive and metal ion sensitive thienylpyrrole derivative. <i>New Journal of Chemistry</i> , 2016 , 40, 8053-8059	3.6	15
43	Ferrocenyldithiophosphonate Containing Conducting Polymers and Theirs Electrochromic Application. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015 , 25, 1011-1018	3.2	13
42	Comparative investigation of spectroelectrochemical and biosensor application of two isomeric thienylpyrrole derivatives. <i>RSC Advances</i> , 2015 , 5, 52543-52549	3.7	43
41	Ferrocene-functionalized 4-(2,5-Di(thiophen-2-yl)-1H-pyrrol-1-yl)aniline: a novel design in conducting polymer-based electrochemical biosensors. <i>Sensors</i> , 2015 , 15, 1389-403	3.8	43
40	Theoretical study of the structure-properties relationship in new class of 2,5-di(2-thienyl)pyrrole compounds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 137, 1174-83	4.4	17

39	Preparation of an EDOT-based polymer: optoelectronic properties and electrochromic device application. <i>RSC Advances</i> , 2015 , 5, 2630-2639	3.7	25
38	Carbazole Functionalized Star Shaped Triazine Monomer and Its Electrochromic Applications. <i>Journal of the Electrochemical Society</i> , 2015 , 162, H527-H534	3.9	27
37	Enzyme immobilization in a photosensitive conducting polymer bearing azobenzene in the main chain. <i>Polymer Bulletin</i> , 2014 , 71, 1827-1841	2.4	13
36	Synthesis and electropolymerization of 3,4-substituted quinoxaline functionalized pyrrole monomer and optoelectronic properties of its polymer. <i>Synthetic Metals</i> , 2014 , 194, 19-28	3.6	11
35	A novel organic/inorganic hybrid conducting copolymer for mediated biosensor applications. <i>RSC Advances</i> , 2014 , 4, 46357-46362	3.7	39
34	Peptide-modified conducting polymer as a biofunctional surface: monitoring of cell adhesion and proliferation. <i>RSC Advances</i> , 2014 , 4, 53411-53418	3.7	48
33	A novel functional conducting polymer as an immobilization platform. <i>Materials Science and Engineering C</i> , 2014 , 40, 148-56	8.3	35
32	Conducting carbon/polymer composites as a catalyst support for proton exchange membrane fuel cells. <i>International Journal of Energy Research</i> , 2014 , 38, 1278-1287	4.5	19
31	New class of 2,5-di(2-thienyl)pyrrole compounds and novel optical properties of its conducting polymer. <i>Materials Chemistry and Physics</i> , 2013 , 142, 303-310	4.4	33
30	Blend or copolymer? Spectroelectrochemical evidence of copolymerization and blending of two electrochromic monomers. <i>Colloid and Polymer Science</i> , 2013 , 291, 767-772	2.4	12
29	Ferrocenyl dithiophosphonate functionalized inorganic/organic hybrid conductive polymer with green color in neutral state. <i>Synthetic Metals</i> , 2013 , 180, 25-31	3.6	14
28	Fabricating multicolored electrochromic devices using conducting copolymers. <i>Smart Materials and Structures</i> , 2013 , 22, 115022	3.4	39
27	Thermal decomposition kinetics of polypyrrole and its star shaped copolymer. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 111, 1627-1632	4.1	25
26	Synthesis and characterization of polypyrrole/carbon composite as a catalyst support for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 16673-16679	6.7	33
25	Synthesis and characterization of poly{2-[3-(1H-pyrrol-2-yl)phenyl]-1H-pyrrole} and its copolymer with EDOT. <i>Russian Journal of General Chemistry</i> , 2011 , 81, 2510-2516	0.7	20
24	Synthesis and electropolymerization of 1,2-bis(thiophen-3-ylmethoxy)benzene and its electrochromic properties and electrochromic device application. <i>Solid State Sciences</i> , 2010 , 12, 1199-1204	2.4	48
23	Synthesis of star-shaped pyrrole and thiophene functionalized monomers and optoelectrochemical properties of corresponding copolymers. <i>Materials Chemistry and Physics</i> , 2009 , 114, 789-794	4.4	39
22	Structural, electrochemical and optical comparisons of tungsten oxide coatings derived from tungsten powder-based sols. <i>Thin Solid Films</i> , 2009 , 518, 104-111	2.2	18

21	Electrochromic Properties of Trimeric Thiophene-pyrrole-thiophene Derivative Grown from Electrodeposited 6-(2,5-di(thiophen-2-yl)-1H-pyrrol-1-yl)hexan-1-amine and its Copolymer. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2008 , 45, 164-171	2.2	29
20	Electrochemical Synthesis of a Water-Soluble and Self-Doped Polythiophene Derivative. <i>Designed Monomers and Polymers</i> , 2008 , 11, 309-317	3.1	14
19	Syntheses of electroactive layers based on functionalized anthracene for electrochromic applications. <i>Electrochimica Acta</i> , 2008 , 53, 4875-4882	6.7	42
18	Optoelectrochemical properties of the copolymer of 2,5-di(4-methylthiophen-2-yl)-1-(4-nitrophenyl)-1H-pyrrole monomer with 3,4-ethylenedioxythiophene. <i>Thin Solid Films</i> , 2008 , 516, 4334-4341	2.2	29
17	Enhancing electrochromic properties of polypyrrole by silsesquioxane nanocages. <i>Polymer</i> , 2008 , 49, 2202-2210	3.9	100
16	Synthesis, characterization and optoelectrochemical properties of poly(1,6-bis(2,5-di(thiophen-2-yl)-1H-pyrrol-1-yl)hexane) and its copolymer with EDOT. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 621, 55-61	4.1	42
15	Transition metal cations extraction by ester and ketone derivatives of chromogenic azocalix[4]arenes. <i>Journal of Hazardous Materials</i> , 2008 , 154, 51-4	12.8	34
14	Synthesis of a dipyrromethane functionalized monomer and optoelectrochromic properties of its polymer. <i>European Polymer Journal</i> , 2008 , 44, 2567-2573	5.2	26
13	Synthesis and electropolymerization of 5,12-dihydrothieno[3,4:2,3][1,4]dioxocino[6,7-b]quinoxaline and its electrochromic properties. <i>European Polymer Journal</i> , 2007 , 43, 3452-3460	5.2	13
12	Enhancing electrochromic properties of conducting polymers via copolymerization: Copolymer of 1-(4-fluorophenyl)-2,5-di(thiophen-2-yl)-1H-pyrrole with 3,4-ethylene dioxythiophene. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 4496-4503	2.5	39
11	Solid state electrochromic device applications of N-(2-(thiophen-3-yl)methylcarbonyloxyethyl) maleimide. <i>Solid State Sciences</i> , 2007 , 9, 843-849	3.4	13
10	Synthesis and characterization of poly(N-(2-(thiophen-3-yl)methylcarbonyloxyethyl)maleimide) and its spectroelectrochemical properties. <i>Journal of Applied Electrochemistry</i> , 2007 , 37, 729-735	2.6	16
9	A novel multielectrochromic copolymer based on 1-(4-nitrophenyl)-2,5-di(2-thienyl)-1H-pyrrole and EDOT. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 603, 8-14	4.1	61
8	Optoelectrochemical properties of poly(5,12-dihydrothieno[3,4:2,3][1,4]dioxocino[6,7-b]quinoxaline-co-2,2' bithiophene) and its electrochromic device application. <i>Smart Materials and Structures</i> , 2007 , 16, 2621-2626	3.4	11
7	Gas sensing property of a conducting copolymer. <i>E-Polymers</i> , 2007 , 7,	2.7	6
6	Synthesis and characterization of a new soluble conducting polymer and its electrochromic device. <i>Solid State Sciences</i> , 2006 , 8, 1477-1483	3.4	44
5	Electrochromic properties and electrochromic device application of copolymer of N-(4-(3-thienyl methylene)-oxycarbonylphenyl)maleimide with thiophene. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 4500-4505	2.9	34
4	Electrochemical Properties of a New Star-Shaped Pyrrole Monomer and its Electrochromic Applications. <i>Macromolecular Chemistry and Physics</i> , 2006 , 207, 1351-1358	2.6	35

3	A soluble and multichromic conducting polythiophene derivative. <i>European Polymer Journal</i> , 2006 , 42, 2352-2360	5.2	85
2	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
1	Influence of an Amide-Functionalized Monomeric Unit on the Morphology and Electronic Properties of Non-Fullerene Polymer Solar Cells. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 1	3.8	0