

# Agnieszka Iwan

## List of Publications by Year in descending order

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132  
papers

2,511  
citations

218677

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254184

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132  
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132  
docs citations

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times ranked

2125  
citing authors

#	ARTICLE	IF	CITATIONS
1	Processible polyazomethines and polyketanils: From aerospace to light-emitting diodes and other advanced applications. <i>Progress in Polymer Science</i> , 2008, 33, 289-345.	24.7	259
2	Perspectives of applied graphene: Polymer solar cells. <i>Progress in Polymer Science</i> , 2012, 37, 1805-1828.	24.7	143
3	Hole Transport Triphenylamine-azomethine Conjugated System: Synthesis and Optical, Photoluminescence, and Electrochemical Properties. <i>Macromolecules</i> , 2008, 41, 6653-6663.	4.8	112
4	Polymer fuel cell components modified by graphene: Electrodes, electrolytes and bipolar plates. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 49, 954-967.	16.4	77
5	Opto(electrical) properties of new aromatic polyazomethines with fluorene moieties in the main chain for polymeric photovoltaic devices. <i>Synthetic Metals</i> , 2012, 162, 143-153.	3.9	66
6	Photosensitive self-assembling materials as functional dopants for organic photovoltaic cells. <i>RSC Advances</i> , 2016, 6, 11577-11590.	3.6	57
7	New air-stable aromatic polyazomethines with triphenylamine or phenylenevinylene moieties towards photovoltaic application. <i>Synthetic Metals</i> , 2014, 195, 341-349.	3.9	52
8	New environmentally friendly polyazomethines with thiophene rings for polymer solar cells. <i>Solar Energy</i> , 2015, 117, 246-259.	6.1	51
9	Effect of chiral photosensitive liquid crystalline dopants on the performance of organic solar cells. <i>Solid-State Electronics</i> , 2015, 104, 53-60.	1.4	50
10	Synthesis, materials characterization and opto(electrical) properties of unsymmetrical azomethines with benzothiazole core. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 546-555.	3.9	46
11	An overview of LC polyazomethines with aliphatic-aromatic moieties: Thermal, optical, electrical and photovoltaic properties. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 65-79.	16.4	42
12	Aliphatic-aromatic poly(azomethine)s with ester groups as thermotropic materials for opto(electronic) applications. <i>Synthetic Metals</i> , 2010, 160, 1856-1867.	3.9	37
13	AFM study of advanced composite materials for organic photovoltaic cells with active layer based on P3HT:PCBM and chiral photosensitive liquid crystalline dopants. <i>Liquid Crystals</i> , 2015, 42, 964-972.	2.2	36
14	Characterization and optical properties of oligoazomethines with triphenylamine moieties exhibiting blue, blue-green and green light. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 72, 1-10.	3.9	35
15	A study of thermal, optical and electrical properties of new branched triphenylamine-based polyazomethines. <i>Synthetic Metals</i> , 2010, 160, 2065-2076.	3.9	35
16	New Conjugated Azomethines Containing Triphenylamine Core - Characterization and Properties. <i>High Performance Polymers</i> , 2007, 19, 401-426.	1.8	33
17	Structure-properties relationship of linear and star-shaped imines with triphenylamine moieties as hole-transporting materials. <i>Optical Materials</i> , 2010, 32, 1514-1525.	3.6	32
18	Investigation of optical and electrical properties of new aromatic polyazomethine with thiophene and cardo moieties toward application in organic solar cells. <i>Synthetic Metals</i> , 2013, 185-186, 17-24.	3.9	32

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19	Influence of ZnO:Al, MoO <sub>3</sub> and PEDOT:PSS on efficiency in standard and inverted polymer solar cells based on polyazomethine and poly(3-hexylthiophene). <i>Electrochimica Acta</i> , 2016, 191, 784-794.	5.2	32
20	Optical, electrical and mechanical properties of indium tin oxide on polyethylene terephthalate substrates: Application in bulk-heterojunction polymer solar cells. <i>Materials Science in Semiconductor Processing</i> , 2014, 24, 110-116.	4.0	30
21	Synthesis, characterization and optical properties of oligoketanils containing carbon-carbon double bond in the main chain. <i>Synthetic Metals</i> , 2004, 143, 331-339.	3.9	29
22	Thermal, optical, electrical and structural study of new symmetrical azomethine based on poly(1,4-butanediol)bis(4-aminobenzoate). <i>Journal of Molecular Structure</i> , 2010, 963, 175-182.	3.6	29
23	New thermotropic azomethine-naphthalene diimides for optoelectronic applications. <i>Synthetic Metals</i> , 2010, 160, 2208-2218.	3.9	29
24	Organic photovoltaic devices based on polyazomethine and fullerene. <i>Energy Procedia</i> , 2011, 3, 84-91.	1.8	29
25	Characterization, liquid crystalline behavior, electrochemical and optoelectrical properties of new poly(azomethine)s and a poly(imide) with siloxane linkages. <i>Optical Materials</i> , 2011, 34, 61-74.	3.6	26
26	Structural characterization, absorption and photoluminescence study of symmetrical azomethines with long aliphatic chains. <i>Journal of Molecular Structure</i> , 2014, 1058, 130-135.	3.6	26
27	Enhanced power conversion efficiency in bulk heterojunction solar cell based on new polyazomethine with vinylene moieties and [6,6]-phenyl C <sub>61</sub> butyric acid methyl ester by adding 10-camphorsulfonic acid. <i>Electrochimica Acta</i> , 2015, 159, 81-92.	5.2	26
28	Electrochemical properties of PEM fuel cells based on Nafion-polybenzimidazole-imidazole hybrid membranes. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 833-840.	7.1	26
29	Characterization and Photoluminescence Study of Blue and Green Emitting Polyketanils and Their Blends. <i>Macromolecules</i> , 2005, 38, 4384-4392.	4.8	25
30	Characterization, liquid crystalline behavior, optical and electrochemical study of new aliphatic-aromatic polyimide with naphthalene and perylene subunits. <i>Synthetic Metals</i> , 2011, 161, 1660-1670.	3.9	25
31	Influence of graphene oxide interlayer on PCE value of polymer solar cells. <i>Synthetic Metals</i> , 2013, 169, 33-40.	3.9	25
32	Electrochemical and photocurrent characterization of polymer solar cells with improved performance after GO addition to the PEDOT:PSS hole transporting layer. <i>Solar Energy</i> , 2017, 146, 230-242.	6.1	25
33	Opto(electrical) properties of triphenylamine-based polyazomethine and its blend with [6,6]-phenyl C <sub>61</sub> butyric acid methyl ester. <i>High Performance Polymers</i> , 2013, 25, 832-842.	1.8	24
34	How do 10-camphorsulfonic acid, silver or aluminum nanoparticles influence optical, electrochemical, electrochromic and photovoltaic properties of air and thermally stable triphenylamine-based polyazomethine with carbazole moieties?. <i>Electrochimica Acta</i> , 2015, 185, 198-210.	5.2	24
35	Toward Better Efficiency of Air-Stable Polyazomethine-Based Organic Solar Cells Using Time-Resolved Photoluminescence and Light-Induced Electron Spin Resonance as Verification Methods. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11415-11425.	3.1	24
36	Liquid-crystalline phases formed by symmetrical azines with different terminal chains: Thermal, optical and electrical study. <i>Synthetic Metals</i> , 2010, 160, 859-865.	3.9	22

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37	Influence of TiO <sub>2</sub> Nanoparticles on Liquid Crystalline, Structural and Electrochemical Properties of (8Z)-N-(4-((Z)-(4-pentylphenylimino)methyl)benzylidene)-4-pentylbenzenamine. <i>Materials</i> , 2019, 12, 1097.	2.9	22
38	Characterization, optical and thermal properties of new azomethines based on heptadecafluoroundecyloxy benzaldehyde. <i>Liquid Crystals</i> , 2009, 36, 873-883.	2.2	21
39	Structural and electrical properties of mixture based on P3HT:PCBM and low band gap naphthalene diimide-imines. <i>Synthetic Metals</i> , 2014, 189, 183-192.	3.9	21
40	Silver Nanoparticles in PEDOT:PSS Layer for Polymer Solar Cell Application. <i>International Journal of Photoenergy</i> , 2015, 2015, 1-9.	2.5	21
41	Similarities and differences between azomethines and ketimines: Synthesis, materials characterization and structure of novel imines compounds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 66, 1030-1041.	3.9	20
42	Ionically self-assembled terephthalylidene-bis-4-n-alkylanilines/n-decanesulfonic acid supramolecules: Synthesis, mesomorphic behaviour and optical properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 72, 72-81.	3.9	20
43	Characterisation and mesomorphic behaviour of new aliphatic- $\pi$ -aromatic azomethines containing ester groups. <i>Liquid Crystals</i> , 2010, 37, 1479-1492.	2.2	18
44	Thermal and current-voltage behaviour of liquid crystal compounds with rod and bent shapes comprising alkoxysemifluorinated and imine segments. <i>Liquid Crystals</i> , 2010, 37, 1021-1031.	2.2	18
45	AFM study of the mechanical wear phenomena of the polyazomethine with thiophene rings: Tapping mode, phase imaging mode and force spectroscopy. <i>High Performance Polymers</i> , 2012, 24, 218-228.	1.8	18
46	Polymer solar cells with a TiO <sub>2</sub> :Ag layer. <i>Journal of Modern Optics</i> , 2014, 61, 1767-1772.	1.3	18
47	Synthesis of iron doped titanium dioxide by sol-gel method for magnetic applications. <i>Processing and Application of Ceramics</i> , 2015, 9, 43-51.	0.8	18
48	Mesomorphic Behavior of Symmetrical and Unsymmetrical Azomethines with Two Imine Groups. <i>Materials</i> , 2009, 2, 38-61.	2.9	17
49	Influence of aluminium electrode preparation on PCE values of polymeric solar cells based on P3HT and PCBM. <i>Organic Electronics</i> , 2012, 13, 2525-2531.	2.6	16
50	Synthesis, characterization and mesomorphic properties of new unsymmetrical azomethine-type liquid crystals derived from 4-biphenyl carboxaldehyde. <i>Journal of Molecular Liquids</i> , 2010, 151, 30-38.	4.9	15
51	Preparation and optical properties of iron-modified titanium dioxide obtained by sol-gel method. <i>Optical Materials</i> , 2015, 46, 45-51.	3.6	15
52	Multifaceted Strategy for the Synthesis of Diverse 2,2'-Bithiophene Derivatives. <i>Molecules</i> , 2015, 20, 4565-4593.	3.8	15
53	Analysis of the surface decoration of TiO <sub>2</sub> grains using silver nanoparticles obtained by ultrasonochemical synthesis towards organic photovoltaics. <i>New Journal of Chemistry</i> , 2018, 42, 7340-7354.	2.8	15
54	Electrochemical and optical studies of new symmetrical and unsymmetrical imines with thiazole and thiophene moieties. <i>Electrochimica Acta</i> , 2020, 332, 135476.	5.2	15

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55	Selected Electrochemical Properties of 4,4'-bis((1E,1'-E)-((1,2,4-Thiadiazole-3,5-diyl)bis(azaneylylidene))bis(methaneylylidene))bis(N,N-di-p-tolylaniline) towards Perovskite Solar Cells with 14.4% Efficiency. <i>Materials</i> , 2020, 13, 2440.	7.9	15
56	Effect of lead thiocyanate ions on performance of tin-based perovskite solar cells. <i>Journal of Power Sources</i> , 2020, 458, 228067.	7.8	15
57	Optical and electrical properties of graphene oxide and reduced graphene oxide films deposited onto glass and Ecoflex® substrates towards organic solar cells. <i>Advanced Materials Letters</i> , 2018, 9, 58-65.	0.6	15
58	Graphene oxide influence on selected properties of polymer fuel cells based on Nafion. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15359-15369.	7.1	14
59	PEDOT:PSS in Water and Toluene for Organic Devices—Technical Approach. <i>Polymers</i> , 2020, 12, 565.	4.5	14
60	Synthesis and characterization of polyketanils with 3,8-diamino-6-phenylphenanthridine moieties exhibiting light emitting properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 69, 291-303.	3.9	13
61	Star-shaped azomethines based on tris(2-aminoethyl)amine. Characterization, thermal and optical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 891-900.	3.9	13
62	Synthesis and characterization of two new TiO <sub>2</sub> -containing benzothiazole-based imine composites for organic device applications. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 721-739.	2.8	13
63	Molecular design of new $\pi$ -conjugated poly(ketanil)s with tunable spectroscopic properties. <i>New Journal of Chemistry</i> , 2004, 28, 1554-1561.	2.8	12
64	Influence of Long-Chain Aliphatic Dopants on the Spectroscopic Properties of Polyketimine Containing 3,8-Diamino-6-phenylphenanthridine and Ethylene Linkage in the Main Chain. Noncovalent Interaction: Proton Transfer, Hydrogen and Halogen Bonding. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7556-7566.	2.5	12
65	New discotic-shaped azomethines with triphenylamine moieties: Thermal, structural behaviors and opto-electrical properties. <i>Journal of Molecular Structure</i> , 2010, 981, 120-129.	3.6	12
66	Novel iridium(III) complexes based on 2-(2,2'-bithien-5-yl)-quinoline. Synthesis, photophysical, photochemical and DFT studies. <i>Materials Chemistry and Physics</i> , 2015, 162, 498-508.	4.0	12
67	Towards designing polymers for photovoltaic applications: A DFT and experimental study of polyazomethines with various chemical structures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 181, 208-217.	3.9	12
68	UV-Vis Absorption Properties of New Aromatic Imines and Their Compositions with Poly([4,8-bis[(2-Ethylhexyl)oxy]Benzo[1,2-b:4,5-b']Dithiophene-2,6-diyl}{3-Fluoro-2-[(2-Ethylhexyl)Carbonyl]Thieno[3,4-b]Dithiophene-2,5-diyl}). <i>Materials</i> , 2019, 12, 4191.	2.0	12
69	Dielectric spectroscopy of polyazomethine with vinylene moieties in the main chain. <i>Liquid Crystals</i> , 2012, 39, 545-550.	2.2	11
70	Hybrid Materials Based on l,d-Poly(lactic acid) and Single-Walled Carbon Nanotubes as Flexible Substrate for Organic Devices. <i>Polymers</i> , 2018, 10, 1271.	4.5	11
71	Thermoluminescence measurements of liquid crystal azomethines and poly(azomethines) with different shapes as thermo-detectors. <i>Journal of Luminescence</i> , 2010, 130, 2362-2367.	3.1	10
72	The synthesis and thermal, optical and electrical properties of novel aromatic-aliphatic five- and six-membered thermotropic polyimides. <i>Liquid Crystals</i> , 2010, 37, 1347-1359.	2.2	10

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73	DSC and POM Study of New Thermotropic Unsymmetrical Azomethines Derived from 4-Octadecyloxybenzaldehyde. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 518, 101-108.	0.9	10
74	An anode catalyst support for polymer electrolyte membrane fuel cells: application of organically modified titanium and silicon dioxide. <i>RSC Advances</i> , 2019, 9, 24428-24439.	3.6	10
75	Photovoltaic Phenomenon in Polymeric Thin Layer Solar Cells. <i>Current Physical Chemistry</i> , 2011, 1, 27-54.	0.2	9
76	Liquid crystalline properties of new unsymmetrical compounds with benzothiazole core detected by TG/DSC-POM-XRD. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 43-49.	3.6	9
77	Study of $\text{TiO}_2$ in anatase form on selected properties of new aliphatic-aromatic imines with bent shape towards organic electronics. <i>Liquid Crystals</i> , 2018, 45, 831-843.	2.2	9
78	Structural and electrochemical studies of $\text{TiO}_2$ complexes with (4,4'-((1 <i>E</i> )-(2,5-bis(octyloxy)-1,4-phenylene)bis(ethene-2,1-diyl))bis( <i>E</i> )-(2,5-bis(octyloxy)benzylidene)imino derivative bases towards organic devices. <i>Dalton Transactions</i> , 2018, 47, 7682-7693.	3.6	9
79	Comparison of the Dielectric Properties of Ecoflex® with L,D-Poly(Lactic Acid) or Polycaprolactone in the Presence of SWCN or 5CB. <i>Materials</i> , 2021, 14, 1719.	2.9	9
80	A comprehensive optical and electrical study of unsymmetrical imine with four thiophene rings and their binary and ternary compositions with PTB7 and PC70BM towards organic photovoltaics. <i>RSC Advances</i> , 2020, 10, 44958-44972.	3.6	9
81	Synthesis and Photoluminescence of Polyketanils with Aliphatic Chains. <i>Polymer Journal</i> , 2002, 34, 911-916.	2.7	8
82	Synthesis and characterization of <i>para</i> - and <i>meta</i> -polybenzimidazoles for high-temperature proton exchange membrane fuel cells. <i>High Performance Polymers</i> , 2014, 26, 436-444.	1.8	8
83	Studies of bibenzimidazole and imidazole influence on electrochemical properties of polymer fuel cells. <i>Electrochimica Acta</i> , 2015, 164, 143-153.	5.2	8
84	Photo-Rechargeable Electric Energy Storage Systems Based on Silicon Solar Cells and Supercapacitor-Engineering Concept. <i>Energies</i> , 2020, 13, 3867.	3.1	8
85	Polyketanils. Polymers protonated with Bronsted acid. <i>Journal of Polymer Science Part A</i> , 2006, 44, 5645-5660.	2.3	7
86	Mesomorphic and optical properties of undoped and doped azomethines. <i>Journal of Molecular Liquids</i> , 2009, 148, 77-87.	4.9	7
87	Thermotropic and opto(electrical) properties of liquid crystalline imine with two fluorinated chains. <i>Journal of Molecular Liquids</i> , 2010, 157, 67-72.	4.9	7
88	Optical properties of unsymmetrical azomethines with one imine bonds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 117, 152-157.	3.9	7
89	Polyazomethines and their acid-base interactions with Nafion and Nafion-imidazole membranes for efficient fuel cells. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1810-1819.	4.9	7
90	Dielectric, Thermal and Mechanical Properties of L,d-Poly(Lactic Acid) Modified by 4'-Pentyl-4-Biphenylcarbonitrile and Single Walled Carbon Nanotube. <i>Polymers</i> , 2019, 11, 1867.	4.5	7

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91	Research of Binary and Ternary Composites Based on Selected Aliphatic or Aliphaticâ€“Aromatic Polymers, 5CB or SWCN toward Biodegradable Electrodes. <i>Materials</i> , 2020, 13, 2480.	2.9	7
92	Preparation and Characterization of Novel Polymer-Based Gel Electrolyte for Dye-Sensitized Solar Cells Based on poly(vinylidene fluoride-co-hexafluoropropylene) and poly(acrylonitrile-co-butadiene) or poly(dimethylsiloxane) bis(3-aminopropyl) Copolymers. <i>Materials</i> , 2020, 13, 2721.	2.9	7
93	Thermal imaging and deep optical and electrochemical study of C70 fullerene derivatives with thiophene, pyrrolidine or indene moieties along with electropolymerization with thiophene substituted imine: Blends with P3HT and PTB7. <i>Electrochimica Acta</i> , 2022, 426, 140741.	5.2	7
94	Thermal, structural and electrochemical properties of new aliphatic-aromatic imine with piperazine moieties blended with titanium dioxide. <i>Phase Transitions</i> , 2018, 91, 210-224.	1.3	6
95	Self-assembling discotic materials with low symmetry for organic photovoltaics. <i>Journal of Molecular Liquids</i> , 2022, 354, 118868.	4.9	6
96	Temperature investigations of E/Z isomers in ketimines based of p-dibenzoylbenzene with aniline and 2,6-dimethylaniline by infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 68, 369-376.	3.9	5
97	Optical properties of polyimines: UVâ€“vis and photoluminescence study of undoped and doped polymers in aprotic and protic solvents. <i>Polymer Engineering and Science</i> , 2007, 47, 1179-1186.	3.1	5
98	UVâ€“vis absorption properties of polyazomethine in base and protonated with 1,2-(di-2-ethylhexyl)ester of 4-sulfophthalic acid form. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 174-179.	3.9	5
99	New aliphaticâ€“aromatic tetraphenylphthalic-based diimides: Thermal, optical and electrical study. <i>Optical Materials</i> , 2011, 33, 958-967.	3.6	5
100	Synthesis and mesomorphism of 2,5-bis(3,4-bis(<i>n</i>-alkoxy)phenyl)thiazolo[5,4- <i>d&lt;/i&gt;]thiazole tetracatenar liquid crystals. <i>Phase Transitions</i>, 2012, 85, 297-308.</i>	1.3	5
101	Symmetrical N-acylsubstituted dihydrazones containing bithiophene core â€“ Photophysical, electrochemical and thermal characterization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 159, 169-176.	3.9	5
102	TiO <sub>2</sub> and TiO <sub>2</sub> â€“Ag powders and thin layer toward self-cleaning coatings for PV panel integrated with sound-absorbing screens: Technical approaches. <i>Journal of Power Sources Advances</i> , 2021, 8, 100053.	5.1	5
103	Iodide Electrolyte-Based Hybrid Supercapacitor for Compact Photo-Rechargeable Energy Storage System Utilising Silicon Solar Cells. <i>Energies</i> , 2021, 14, 2708.	3.1	5
104	Mechanical strain, thermal and pressure effects on the absorption edge of an organic charge-transfer polymer for flexible photovoltaics and sensors. <i>Materials Advances</i> , 2022, 3, 2697-2705.	5.4	5
105	Synthesis and characterisation of polyketanils with ether linkages. <i>Macromolecular Symposia</i> , 2003, 199, 455-466.	0.7	4
106	Characterisation and Mesomorphic Behavior of Rod-Shaped Unsymmetrical Imine with a Fluorinated Chain and a Carboxylic Group. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 528, 156-162.	0.9	4
107	Nafionâ€“15/aromatic poly(etherimide) with isopropylidene groups/imidazole membranes for polymer fuel cells. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	4
108	CVD-Graphene-Based Flexible, Thermoelectrochromic Sensor. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-8.	2.7	4



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109	Polyketanils: Preparation of $\pi$ -Conjugated Polymer Bases from p-dibenzoylbenzene with Various Diamines. Protonation with DL-Camphor-10-sulfonic Acid. High Performance Polymers, 2007, 19, 78-96.	1.8	3
110	Supramolecular Modification of Optical Properties of Some New Polyazomethines. Molecular Crystals and Liquid Crystals, 2007, 468, 119/[471]-129/[481].	0.9	3
111	Supramolecular associations of poly(ketanil)s with sulfonic acid derivatives of benzenetricarboxamide via Brønsted acid–base interactions: Preparation, spectroscopic morphological and thermal investigations. Synthetic Metals, 2009, 159, 282-291.	3.9	3
112	Polyazomethine with vinylene and phenanthridine moieties in the main chain: Synthesis, characterization, opto(electrical) properties and theoretical calculations. High Performance Polymers, 2012, 24, 319-330.	1.8	3
113	Solvent-free thiophene-based electrolytes: synthesis of new liquid-crystalline ionic conductors for batteries: part I. Dalton Transactions, 2018, 47, 15714-15724.	3.3	3
114	Engineering Concept of Energy Storage Systems Based on New Type of Silicon Photovoltaic Module and Lithium Ion Batteries. Energies, 2020, 13, 3701.	3.1	3
115	Dielectric studies in the isotropic phase of six symmetrical azomethines with various number of benzene rings. Influence of the ionic conductivity. Journal of Molecular Liquids, 2021, 328, 115477.	4.9	3
116	Conversion of Radiophotoluminescence Irradiation into Electricity in Photovoltaic Cells. A Review of Theoretical Considerations and Practical Solutions. Energies, 2021, 14, 6186.	3.1	3
117	Thermotropic azomethines and polyazomethines showing liquid crystalline properties. Polimery, 2010, 55, 253-266.	0.7	3
118	Siloxane resins as hydrophobic self-cleaning layers for silicon and dye-sensitized solar cells: material and application aspects. RSC Advances, 2022, 12, 19154-19170.	3.6	3
119	Effect of Chain Structure and Dopant on the Thermal and Optical Properties of Conjugated–non-conjugated Isomeric Polyketanils. High Performance Polymers, 2007, 19, 194-212.	1.8	2
120	Novel construction of CdTe solar cell based on polyketanil structure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 165, 71-73.	3.5	2
121	Dielectric spectroscopy of liquid crystalline unsymmetrical azomethines with one imine bond: influence of rod length and type of terminal chains. Liquid Crystals, 2012, 39, 1033-1039.	2.2	2
122	Impedance spectroscopy of siloxane–containing polyazomethines blended with SiO <sub>2</sub> . Journal of Applied Polymer Science, 2013, 128, 691-697.	2.6	2
123	Crystal Structure Determination of 4-[(Di-p-tolyl-amino)-benzylidene]-(5-pyridin-4-yl-[1,3,4]thiadiazol-2-yl)-imine along with Selected Properties of Imine in Neutral and Protonated Form with Camforosulphonic Acid: Theoretical and Experimental Studies. Materials, 2021, 14, 1952.	2.9	2
124	Polymer solar cells. Polimery, 2011, 56, 99-107.	0.7	2
125	Study on electrical conductivity of polyazomethines with liquid crystalline properties. Polimery, 2013, 58, 45-50.	0.7	2
126	Electrochemical polymerization of polymers for photovoltaic cell applications. Polimery, 2016, 61, 239-247.	0.7	2



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127	Polyketimines with Pendent Azo Groups: Synthesis, Characterization and Optical Properties. High Performance Polymers, 2008, 20, 267-280.	1.8	1
128	Polymer fuel cells. Part I. Principle of operation, types and methods of investigations. Polimery, 2014, 59, 451-458.	0.7	1
129	IR thermographic camera as useful and smart tool to analyse defects in organic solar cells. Photonics Letters of Poland, 2020, 12, 25.	0.4	1
130	Molecular and supramolecular approaches for tuning properties of new polyketanils. E-Polymers, 2004, 4, .	3.0	0
131	Study on porosity and surface area of the mixtures of graphene oxide and TiO2 modified gas diffusion electrodes for polymer fuel cells. Polimery, 2016, 61, 538-543.	0.7	0
132	Badanie wpływu rodzaju warstwy transportującej dziury na parametry elektryczne polimerowych ogniw słonecznych na bazie PTB7:PC71BM. Przegląd Elektrotechniczny, 2016, 1, 22-25.	0.2	0