

Elena Tomsik

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

2,808
citations

279487

23
h-index

168136

53
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56
all docs

56
docs citations

56
times ranked

2663
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Polyaniline Nanotubes: The Oxidation of Aniline in Water. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9461-9468.	1.2	412
2	Oxidation of Aniline: Polyaniline Granules, Nanotubes, and Oligoaniline Microspheres. <i>Macromolecules</i> , 2008, 41, 3530-3536.	2.2	342
3	The genesis of polyaniline nanotubes. <i>Polymer</i> , 2006, 47, 8253-8262.	1.8	295
4	Multi-wall carbon nanotubes coated with polyaniline. <i>Polymer</i> , 2006, 47, 5715-5723.	1.8	286
5	Polyaniline nanotubes: conditions of formation. <i>Polymer International</i> , 2006, 55, 31-39.	1.6	270
6	The conversion of polyaniline nanotubes to nitrogen-containing carbon nanotubes and their comparison with multi-walled carbon nanotubes. <i>Polymer Degradation and Stability</i> , 2009, 94, 929-938.	2.7	167
7	Chemical oxidative polymerization of anilinium sulfate versus aniline: Theory and experiment. <i>Synthetic Metals</i> , 2008, 158, 200-211.	2.1	84
8	Chemical Oxidative Polymerization of Aminodiphenylamines. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6976-6987.	1.2	67
9	Modification of carbon nanotubes and its effect on properties of carbon nanotube/epoxy nanocomposites. <i>Polymer Composites</i> , 2009, 30, 1378-1387.	2.3	67
10	Thin polyaniline and polyaniline/carbon nanocomposite films for gas sensing. <i>Thin Solid Films</i> , 2011, 519, 4123-4127.	0.8	54
11	Ferromagnetic behaviour of polyaniline-coated multi-wall carbon nanotubes containing nickel nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 231-240.	1.0	47
12	NMR Investigation of Aniline Oligomers Produced in the Early Stages of Oxidative Polymerization of Aniline. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6666-6673.	1.2	47
13	The role of acidity profile in the nanotubular growth of polyaniline. <i>Chemical Papers</i> , 2010, 64, .	1.0	43
14	Self-Assembly of Aniline Oligomers. <i>Chemistry - an Asian Journal</i> , 2013, 8, 129-137.	1.7	43
15	Enhanced thermal stability of multi-walled carbon nanotubes after coating with polyaniline salt. <i>Polymer Degradation and Stability</i> , 2012, 97, 1405-1414.	2.7	42
16	Polypyrrole and polyaniline prepared with cerium(IV) sulfate oxidant. <i>Synthetic Metals</i> , 2010, 160, 701-707.	2.1	38
17	Polymerization of aniline in ice. <i>Synthetic Metals</i> , 2008, 158, 927-933.	2.1	33
18	The reaction of polyaniline with iodine. <i>Polymer</i> , 2008, 49, 180-185.	1.8	32

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19	Activity and stability of polyaniline-sulfate-based solid acid catalysts for the transesterification of triglycerides and esterification of fatty acids with methanol. <i>Applied Catalysis A: General</i> , 2010, 383, 169-181.	2.2	32
20	Polyaniline prepared in ethylene glycol or glycerol. <i>Polymer</i> , 2011, 52, 1900-1907.	1.8	31
21	Conducting polyaniline/multi-wall carbon nanotubes composite paints on low carbon steel for corrosion protection: electrochemical investigations. <i>Chemical Papers</i> , 2013, 67, .	1.0	30
22	Solid-state oxidation of aniline hydrochloride with various oxidants. <i>Synthetic Metals</i> , 2011, 161, 1353-1360.	2.1	29
23	Hydrogen-bonding versus π - π stacking in the design of organic semiconductors: From dyes to oligomers. <i>Progress in Polymer Science</i> , 2015, 43, 33-47.	11.8	26
24	Assembly and Interaction of Polyaniline Chains: Impact on Electro- and Physical Chemical Behavior. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8022-8030.	1.5	22
25	Transformation of Oligoaniline Microspheres to Platelike Nitrogen-Containing Carbon. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2289-2299.	1.5	20
26	In situ polymerized polyaniline films: The top and the bottom. <i>Synthetic Metals</i> , 2012, 162, 2401-2405.	2.1	15
27	Influence of ethanol on the chain-ordering of carbonised polyaniline. <i>Chemical Papers</i> , 2013, 67, .	1.0	15
28	Method of Preparation of Soluble PEDOT: Self-Polymerization of EDOT without Oxidant at Room Temperature. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000219.	1.1	15
29	NMR investigation of aniline oligomers produced in the oxidation of aniline in alkaline medium. <i>Polymer International</i> , 2011, 60, 1296-1302.	1.6	14
30	Pd-catalysts for DFAFC prepared by magnetron sputtering. <i>Applied Surface Science</i> , 2017, 419, 838-846.	3.1	14
31	Like Supramolecular Assemblies of Polyaniline in Water. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2739-2743.	1.1	13
32	High-Rate Polyaniline/Carbon Cloth Electrodes: Effect of Mass Loading on the Pseudocapacitive Performance. <i>ChemElectroChem</i> , 2017, 4, 2884-2890.	1.7	13
33	Tuning the photoluminescence and anisotropic structure of PEDOT. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7013-7019.	2.7	13
34	Multi-wall carbon nanotubes with nitrogen-containing carbon coating. <i>Chemical Papers</i> , 2013, 67, .	1.0	12
35	Hydrogen Bonding as a Tool to Control Chain Structure of PEDOT: Electrochemical Synthesis in the Presence of Different Electrolytes. <i>Macromolecules</i> , 2020, 53, 2464-2473.	2.2	12
36	Bio-esters formation in transesterification and esterification reactions on carbon and silica supported organo-sulfonic acids-polyaniline solid catalysts. <i>Fuel</i> , 2014, 135, 130-145.	3.4	10

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37	J-Like Liquid-Crystalline and Crystalline States of Polyaniline Revealed by Thin, Highly Crystalline, and Strongly Oriented Films. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8901-8904.	1.2	9
38	Electrochemical deposition of highly hydrophobic perfluorinated polyaniline film for biosensor applications. <i>RSC Advances</i> , 2021, 11, 18852-18859.	1.7	9
39	Single-step preparation of mono-dispersed sulfur nanoparticles for detention of copper. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	8
40	Thin mesoporous polyaniline films manifesting a water-promoted photovoltaic effect. <i>Chemical Papers</i> , 2013, 67, .	1.0	7
41	Transesterification of triacetin and castor oil with methanol catalyzed by supported polyaniline-sulfate. A role of polymer morphology. <i>Applied Catalysis A: General</i> , 2013, 455, 92-106.	2.2	7
42	Water in Ionic Liquids: Correlation between Anion Hydrophilicity and Near-Infrared Fingerprints. <i>ChemPhysChem</i> , 2016, 17, 1586-1590.	1.0	7
43	Transport properties of durable PANI/PPO composite membrane with interpenetrating layer. <i>Polymer Testing</i> , 2021, 94, 107037.	2.3	6
44	Effect of Hydrogen Bonding on a Value of an Open Circuit Potential of Poly(3,4-ethylenedioxythiophene) as a Beneficial Mode for Energy Storage Devices. <i>Advanced Functional Materials</i> , 2021, 31, 2103001.	7.8	6
45	Cross-linked polyelectrolyte microspheres: preparation and new insights into electro-surface properties. <i>Soft Matter</i> , 2021, 17, 2290-2301.	1.2	6
46	Preparation of Smart Surfaces Based on PNaSS@PEDOT Microspheres: Testing of E. coli Detection. <i>Sensors</i> , 2022, 22, 2784.	2.1	6
47	Potentiometric Performance of Ion-Selective Electrodes Based on Polyaniline and Chelating Agents: Detection of Fe ²⁺ or Fe ³⁺ Ions. <i>Biosensors</i> , 2022, 12, 446.	2.3	6
48	How strong are strong poly(sulfonic acids)? An example of the poly(2-acrylamido-2-methyl-1-propanesulfonic acid). <i>European Polymer Journal</i> , 2016, 74, 130-135.	2.6	5
49	Suspension polymerization of aniline hydrochloride in non-aqueous media. <i>Polymer International</i> , 2011, 60, 794-797.	1.6	4
50	Thermal and chemical activation methods applied to DFAFC anodes prepared by magnetron sputtering. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14133-14144.	3.8	4
51	Synergy between the Assembly of Individual PEDOT Chains and Their Interaction with Light. <i>Macromolecules</i> , 2021, 54, 10321-10330.	2.2	4
52	Application of Energy-Saturated Complex Perchlorates. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	3
53	Phase Transitions of Polyaniline Induced by Electrochemical Treatment. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700627.	1.1	3
54	Non-conducting polyaniline nanofibrils and their physico-chemical behavior. <i>Vacuum</i> , 2020, 171, 108955.	1.6	3

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55	Electrochemically active water repelling perfluorinated polyaniline films. Chemical Physics, 2020, 528, 110540.	0.9	0