Elena Tomsik

List of Publications by Year
in descending order

55 papers	2,808 citations	279798 23 h-index	168389 53 g-index
56 all docs	56 docs citations	56 times ranked	2663 citing authors

#	Article	IF	Citations
1	Evolution of Polyaniline Nanotubes:Â The Oxidation of Aniline in Water. Journal of Physical Chemistry B, 2006, 110, 9461-9468.	2.6	412
2	Oxidation of Aniline: Polyaniline Granules, Nanotubes, and Oligoaniline Microspheres. Macromolecules, 2008, 41, 3530-3536.	4.8	342
3	The genesis of polyaniline nanotubes. Polymer, 2006, 47, 8253-8262.	3.8	295
4	Multi-wall carbon nanotubes coated with polyaniline. Polymer, 2006, 47, 5715-5723.	3.8	286
5	Polyaniline nanotubes: conditions of formation. Polymer International, 2006, 55, 31-39.	3.1	270
6	The conversion of polyaniline nanotubes to nitrogen-containing carbon nanotubes and their comparison with multi-walled carbon nanotubes. Polymer Degradation and Stability, 2009, 94, 929-938.	5.8	167
7	Chemical oxidative polymerization of anilinium sulfate versus aniline: Theory and experiment. Synthetic Metals, 2008, 158, 200-211.	3.9	84
8	Chemical Oxidative Polymerization of Aminodiphenylamines. Journal of Physical Chemistry B, 2008, 112, 6976-6987.	2.6	67
9	Modification of carbon nanotubes and its effect on properties of carbon nanotube/epoxy nanocomposites. Polymer Composites, 2009, 30, 1378-1387.	4.6	67
10	Thin polyaniline and polyaniline/carbon nanocomposite films for gas sensing. Thin Solid Films, 2011, 519, 4123-4127.	1.8	54
11	Ferromagnetic behaviour of polyaniline-coated multi-wall carbon nanotubes containing nickel nanoparticles. Journal of Magnetism and Magnetic Materials, 2008, 320, 231-240.	2.3	47
12	NMR Investigation of Aniline Oligomers Produced in the Early Stages of Oxidative Polymerization of Aniline. Journal of Physical Chemistry B, 2009, 113, 6666-6673.	2.6	47
13	The role of acidity profile in the nanotubular growth of polyaniline. Chemical Papers, 2010, 64, .	2.2	43
14	Selfâ€Assembly of Aniline Oligomers. Chemistry - an Asian Journal, 2013, 8, 129-137.	3.3	43
15	Enhanced thermal stability of multi-walled carbon nanotubes after coating with polyaniline salt. Polymer Degradation and Stability, 2012, 97, 1405-1414.	5.8	42
16	Polypyrrole and polyaniline prepared with cerium(IV) sulfate oxidant. Synthetic Metals, 2010, 160, 701-707.	3.9	38
17	Polymerization of aniline in ice. Synthetic Metals, 2008, 158, 927-933.	3.9	33
18	The reaction of polyaniline with iodine. Polymer, 2008, 49, 180-185.	3.8	32

#	Article	IF	Citations
19	Activity and stability of polyaniline-sulfate-based solid acid catalysts for the transesterification of triglycerides and esterification of fatty acids with methanol. Applied Catalysis A: General, 2010, 383, 169-181.	4.3	32
20	Polyaniline prepared in ethylene glycol or glycerol. Polymer, 2011, 52, 1900-1907.	3.8	31
21	Conducting polyaniline/multi-wall carbon nanotubes composite paints on low carbon steel for corrosion protection: electrochemical investigations. Chemical Papers, 2013, 67, .	2.2	30
22	Solid-state oxidation of aniline hydrochloride with various oxidants. Synthetic Metals, 2011, 161, 1353-1360.	3.9	29
23	Hydrogen-bonding versus Ï€â€“Ï€ stacking in the design of organic semiconductors: From dyes to oligomers. Progress in Polymer Science, 2015, 43, 33-47.	24.7	26
24	Assembly and Interaction of Polyaniline Chains: Impact on Electro- and Physicalâ€“Chemical Behavior. Journal of Physical Chemistry C, 2018, 122, 8022-8030.	3.1	22
25	Transformation of Oligoaniline Microspheres to Platelike Nitrogen-Containing Carbon. Journal of Physical Chemistry C, 2013, 117, 2289-2299.	3.1	20
26	In situ polymerized polyaniline films: The top and the bottom. Synthetic Metals, 2012, 162, 2401-2405.	3.9	15
27	Influence of ethanol on the chain-ordering of carbonised polyaniline. Chemical Papers, 2013, 67, .	2.2	15
28	Method of Preparation of Soluble PEDOT: Selfâ€Polymerization of EDOT without Oxidant at Room Temperature. Macromolecular Chemistry and Physics, 2020, 221, 2000219.	2.2	15
29	NMR investigation of aniline oligomers produced in the oxidation of aniline in alkaline medium. Polymer International, 2011, 60, 1296-1302.	3.1	14
30	Pd-catalysts for DFAFC prepared by magnetron sputtering. Applied Surface Science, 2017, 419, 838-846.	6.1	14
31	Jâ€Like Supramolecular Assemblies of Polyaniline in Water. Macromolecular Chemistry and Physics, 2013, 214, 2739-2743.	2.2	13
32	Highâ€Rate Polyaniline/Carbonâ€Cloth Electrodes: Effect of Mass Loading on the Pseudocapacitive Performance. ChemElectroChem, 2017, 4, 2884-2890.	3.4	13
33	Tuning the photoluminescence and anisotropic structure of PEDOT. Journal of Materials Chemistry C, 2019, 7, 7013-7019.	5.5	13
34	Multi-wall carbon nanotubes with nitrogen-containing carbon coating. Chemical Papers, 2013, 67, .	2.2	12
35	Hydrogen Bonding as a Tool to Control Chain Structure of PEDOT: Electrochemical Synthesis in the Presence of Different Electrolytes. Macromolecules, 2020, 53, 2464-2473.	4.8	12
36	Bio-esters formation in transesterification and esterification reactions on carbon and silica supported organo-sulfonic acids-polyaniline solid catalysts. Fuel, 2014, 135, 130-145.	6.4	10

#	Article	IF	Citations
37	J-Like Liquid-Crystalline and Crystalline States of Polyaniline Revealed by Thin, Highly Crystalline, and Strongly Oriented Films. Journal of Physical Chemistry B, 2014, 118, 8901-8904.	2.6	9
38	Electrochemical deposition of highly hydrophobic perfluorinated polyaniline film for biosensor applications. RSC Advances, 2021, 11, 18852-18859.	3.6	9
39	Single-step preparation of mono-dispersed sulfur nanoparticles for detention of copper. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	8
40	Thin mesoporous polyaniline films manifesting a water-promoted photovoltaic effect. Chemical Papers, 2013, 67, .	2.2	7
41	Transesterification of triacetin and castor oil with methanol catalyzed by supported polyaniline-sulfate. A role of polymer morphology. Applied Catalysis A: General, 2013, 455, 92-106.	4.3	7
42	Water in Ionic Liquids: Correlation between Anion Hydrophilicity and Nearâ€Infrared Fingerprints. ChemPhysChem, 2016, 17, 1586-1590.	2.1	7
43	Transport properties of durable PANI/PPO composite membrane with interpenetrating layer. Polymer Testing, 2021, 94, 107037.	4.8	6
44	Effect of Hydrogen Bonding on a Value of an Open Circuit Potential of Polyâ€(3,4â€ethylenedioxythiophene) as a Beneficial Mode for Energy Storage Devices. Advanced Functional Materials, 2021, 31, 2103001.	14.9	6
45	Cross-linked polyelectrolyte microspheres: preparation and new insights into electro-surface properties. Soft Matter, 2021, 17, 2290-2301.	2.7	6
46	Preparation of Smart Surfaces Based on PNaSS@PEDOT Microspheres: Testing of E. coli Detection. Sensors, 2022, 22, 2784.	3.8	6
47	Potentiometric Performance of Ion-Selective Electrodes Based on Polyaniline and Chelating Agents: Detection of Fe2+ or Fe3+ Ions. Biosensors, 2022, 12, 446.	4.7	6
48	How strong are strong poly(sulfonic acids)? An example of the poly(2-acrylamido-2-methyl-1-propanesulfonic acid). European Polymer Journal, 2016, 74, 130-135.	5.4	5
49	Suspension polymerization of aniline hydrochloride in nonâ€aqueous media. Polymer International, 2011, 60, 794-797.	3.1	4
50	Thermal and chemical activation methods applied to DFAFC anodes prepared by magnetron sputtering. International Journal of Hydrogen Energy, 2020, 45, 14133-14144.	7.1	4
51	Synergy between the Assembly of Individual PEDOT Chains and Their Interaction with Light. Macromolecules, 2021, 54, 10321-10330.	4.8	4
52	Application of Energy-Saturated Complex Perchlorates. AIP Conference Proceedings, 2006, , .	0.4	3
53	Phase Transitions of Polyaniline Induced by Electrochemical Treatment. Macromolecular Chemistry and Physics, 2018, 219, 1700627.	2.2	3
54	Non-conducting polyaniline nanofibrils and their physico-chemical behavior. Vacuum, 2020, 171, 108955.	3.5	3

#	Article	IF	Citations
55	Electrochemically active water repelling perfluorinated polyaniline films. Chemical Physics, 2020, 528, 110540.	1.9	0