Jerzy P Lukaszewicz

List of Publications by Year
in descending order

75 papers	1,312 citations	394421 19 h-index	434195 31 g-index
75 all docs	75 docs citations	75 times ranked	1554 citing authors

#	Article	IF	Citations
1	Successful Manufacturing Protocols of N-Rich Carbon Electrodes Ensuring High ORR Activity: A Review. Processes, 2022, 10, 643.	2.8	7
2	N-doped graphene foam obtained by microwave-assisted exfoliation of graphite. Scientific Reports, 2021, 11, 2044.	3.3	18
3	Green algae and gelatine derived nitrogen rich carbon as an outstanding competitor to Pt loaded carbon catalysts. Scientific Reports, 2021, 11, 7084.	3.3	21
4	The Improvement of Energy Storage Performance by Sucrose-Derived Carbon Foams via Incorporating Nitrogen Atoms. Nanomaterials, 2021, 11, 760.	4.1	24
5	The Importance of Structural Factors for the Electrochemical Performance of Graphene/Carbon Nanotube/Melamine Powders towards the Catalytic Activity of Oxygen Reduction Reaction. Materials, 2021, 14, 2448.	2.9	47
6	Adsorption of Hexavalent Chromium and Divalent Lead Ions on the Nitrogen-Enriched Chitosan-Based Activated Carbon. Nanomaterials, 2021, 11, 1907.	4.1	15
7	Combined effect of nitrogen-doped functional groups and porosity of porous carbons on electrochemical performance of supercapacitors. Scientific Reports, 2021, 11, 18387.	3.3	20
8	High surface area micro-mesoporous graphene for electrochemical applications. Scientific Reports, 2021, 11, 22054.	3.3	30
9	The effect of nitrogen species on the catalytic properties of N-doped graphene. Scientific Reports, 2021, 11, 23970.	3.3	12
10	Synthesis of Hybrid Carbon Materials Consisting of N-Doped Microporous Carbon and Amorphous Carbon Nanotubes. Materials, 2020, 13, 2997.	2.9	5
11	Highly Effective Methods of Obtaining N-Doped Graphene by Gamma Irradiation. Materials, 2020, 13, 4975.	2.9	21
12	3D hierarchical porous hybrid nanostructure of carbon nanotubes and N-doped activated carbon. Scientific Reports, 2020, 10, 18793.	3.3	8
13	Graphene-Based Hydrogen Gas Sensors: A Review. Processes, 2020, 8, 633.	2.8	35
14	Manufacture of activated carbons using Egyptian wood resources and its application in oligothiophene dye adsorption. Arabian Journal of Chemistry, 2020, 13, 5284-5291.	4.9	16
15	Molecularly Imprinted Polymer and Computational Study of (E)-4-(2-) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (cyano-3-(Current Analytical Chemistry, 2020, 16, 119-137.	1.2	17
16	Improving the Performance of Zn-Air Batteries with N-Doped Electroexfoliated Graphene. Materials, 2020, 13, 2115.	2.9	13
17	Highly effective three-dimensional functionalization of graphite to graphene by wet chemical exfoliation methods. Adsorption, 2019, 25, 631-638.	3.0	18
18	Electro-Exfoliation of Graphite to Graphene in an Aqueous Solution of Inorganic Salt and the Stabilization of Its Sponge Structure with Poly(Furfuryl Alcohol). Nanomaterials, 2019, 9, 971.	4.1	17

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19	Effective Synthesis of Carbon Hybrid Materials Containing Oligothiophene Dyes. Materials, 2019, 12, 3354.	2.9	13
20	Metal-free nitrogen-rich carbon foam derived from amino acids for the oxygen reduction reaction. Journal of Materials Science, 2019, 54, 14859-14871.	3.7	21
21	Alternative Synthesis Method for Carbon Nanotubes. Small, 2019, 15, 1904132.	10.0	2
22	Selected Aspects of Graphene Exfoliation as an Introductory Step Towards 3D Structuring of Graphene Nano-Sheets. Current Graphene Science, 2019, 2, 106-117.	0.5	6
23	Hierarchical porous carbon templated with silica spheres of a diameter of 14Ânm from pure chitosan or a chitosan/ZnCl2 solution. Journal of Porous Materials, 2018, 25, 1633-1648.	2.6	12
24	Influence of intermolecular interactions on the properties of carbon nanotubes. Bulletin of Materials Science, 2018, 41, 1.	1.7	18
25	Marine and Freshwater Feedstocks as a Precursor for Nitrogen-Containing Carbons: A Review. Marine Drugs, 2018, 16, 142.	4.6	11
26	Urea treatment of nitrogen-doped carbon leads to enhanced performance for the oxygen reduction reaction. Journal of Materials Research, 2018, 33, 1612-1624.	2.6	24
27	Pyrolysis of Chlorella vulgaris as a green chemistry method for manufacturing of nitrogen doped porous carbon materials of high application potential. Materials Express, 2017, 7, 25-34.	0.5	12
28	Morphologically disordered pore model for characterization of micro-mesoporous carbons. Carbon, 2017, 111, 358-370.	10.3	25
29	Type A and B gelatin as precursors of silica-templated porous carbon with a specified number of nitrogen- and oxygen-containing functionalities. Materials Express, 2017, 7, 123-133.	0.5	3
30	Antimicrobial carbon materials incorporating copper nanoâ€crystallites and their <scp>PLA</scp> composites. Journal of Applied Polymer Science, 2016, 133, .	2.6	10
31	Nanoscale Exfoliation of Graphene Sheets for Manufacturing of 3D Mesoporous Structures. Journal of Nanoscience and Nanotechnology, 2016, 16, 9997-10000.	0.9	4
32	Nano-Structured Carbon Matrixes Obtained from Chitin and Chitosan by a Novel Method. Journal of Nanoscience and Nanotechnology, 2016, 16, 2623-2631.	0.9	12
33	Zinc Regarding the Utilization of Waste Tires by Pyrolysis. Polish Journal of Environmental Studies, 2016, 25, 2683-2687.	1.2	9
34	<i>Salix viminalis</i>wood as a new precursor for manufacturing of carbon molecular sieves for effective methane/nitrogen separation. Open Chemistry, 2015, 13, .	1.9	3
35	Discussion Remarks on the Role of Wood and Chitin Constituents during Carbonization. Frontiers in Materials, 2015, 2, .	2.4	9
36	Nanostructured composite TiO2/carbon catalysts of high activity for dehydration of n-butanol. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 198, 35-42.	3.5	9

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37	The fungicidal properties of the carbon materials obtained from chitin and chitosan promoted by copper salts. Materials Science and Engineering C, 2015, 52, 31-36.	7.3	19
38	Nitrogen-containing mesoporous carbons with high capacitive properties derived from a gelatin biomolecule. Carbon, 2015, 91, 200-214.	10.3	41
39	Synthesis of N-rich microporous carbon materials from chitosan by alkali activation using Na2CO3. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 201, 66-71.	3.5	32
40	Biologically Active Constituents from Salix viminalis Bio-Oil and Their Protective Activity Against Hydrogen Peroxide-Induced Oxidative Stress in Chinese Hamster Ovary Cells. Applied Biochemistry and Biotechnology, 2014, 174, 2153-2161.	2.9	7
41	Manufacture of a nanostructured CeO /carbon catalyst for n-butanol conversion. Materials Letters, 2014, 118, 119-122.	2.6	5
42	Synthesis of <I>N</I>-Rich Activated Carbons from Chitosan by Chemical Activation. Science of Advanced Materials, 2014, 6, 290-297.	0.7	13
43	Novel nitrogen-containing mesoporous carbons prepared from chitosan. Journal of Materials Chemistry A, 2013, 1, 8961.	10.3	71
44	Critical issues in the surface modification of active carbons by the Dielsâ€“Alder reaction. Materials Letters, 2013, 101, 17-20.	2.6	0
45	Pyrolytic production of microporous charcoals from different wood resources. Journal of Analytical and Applied Pyrolysis, 2012, 98, 15-21.	5.5	10
46	Effect of Salix viminalis Pyrolysis Derived Antioxidants on Oxidative Stability of Diesters and Diesterâ€“Poly-Î±-olefin Mixtures. Industrial & Engineering Chemistry Research, 2012, 51, 5117-5123.	3.7	5
47	A microporous and high surface area active carbon obtained by the heat-treatment of chitosan. Carbon, 2012, 50, 3098-3101.	10.3	54
48	Durability and narrow pore size distribution (PSD) of carbons fabricated from Salix viminalis wood. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2011, 32, 195-201.	0.7	4
49	Hybrid catalyst containing nano-sized LaMnO3 and carbon black for high yield and selective ketonization of n-butanol. Materials Research Bulletin, 2011, 46, 327-332.	5.2	12
50	Biotechnological fabrication of LaMnO3-carbon catalyst for n-butanol conversion to ketones. Carbon, 2010, 48, 99-106.	10.3	28
51	Transfer of Triazineâ€iron(II) Chromic Complexes Left by Iron Items on Textile Background and Human Skin. Journal of Forensic Sciences, 2010, 55, 944-952.	1.6	10
52	1,2,4â€Triazineâ€Based Chromogenic Reagents for the Detection of Microtraces of Various Metals Left on Human Skin*. Journal of Forensic Sciences, 2010, 55, 747-752.	1.6	6
53	Fabrication of molecular-sieve-type carbons from Salix viminalis. Microporous and Mesoporous Materials, 2008, 116, 723-726.	4.4	12
54	Chemisorption of Hydrogen Atoms on the Sidewalls of Armchair Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2007, 111, 7376-7383.	3.1	79

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55	Effect of tube length on the chemisorptions of one and two hydrogen atoms on the sidewalls of (3,3) and (4,4) single-walled carbon nanotubes: A theoretical study. International Journal of Quantum Chemistry, 2007, 107, 2211-2219.	2.0	32
56	A novel carbon-based ionic conductor for humidity sensors. Sensors and Actuators B: Chemical, 2006, 113, 970-977.	7.8	16
57	New approach towards preparation of efficient gas diffusion-type oxygen reduction electrode. Journal of Materials Science, 2006, 41, 6215-6220.	3.7	9
58	Carbon Materials for Chemical Sensors: A Review. Sensor Letters, 2006, 4, 53-98.	0.4	45
59	Carbon Films for Humidity Sensors. Sensor Letters, 2006, 4, 281-304.	0.4	3
60	New correlations between the composition of the surface layer of carbon and its physicochemical properties exposed while paracetamol is adsorbed at different temperatures and pH. Journal of Colloid and Interface Science, 2003, 257, 13-30.	9.4	58
61	Controlling of surface and humidity detecting properties of carbon films â€" selection of a precursor for carbonization. Thin Solid Films, 2001, 391, 270-274.	1.8	8
62	Carbon-film-based humidity sensor containing sodium or potassium. Recovery effect. Sensors and Actuators B: Chemical, 1999, 60, 184-190.	7.8	20
63	The stabilising influence of hematin on the properties of the oxygen-sensitive carbon electrode. Sensors and Actuators B: Chemical, 1999, 55, 1-8.	7.8	3
64	Porosity of carbon films applied to chemical sensor construction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 132, 127-135.	4.7	3
65	Title is missing!. Journal of Materials Science, 1997, 32, 6063-6068.	3.7	13
66	Sodium-doped carbon films for humidity sensor construction. Sensors and Actuators B: Chemical, 1996, 32, 221-226.	7.8	18
67	Determination of carbon porosity from low-temperature nitrogen adsorption data. A comparison of the most frequently used methods. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1995, 96, 105-111.	4.7	14
68	LaF3-based oxygen sensor using Pb phthalocyanine electrode for quick response at room temperature. Sensors and Actuators B: Chemical, 1992, 9, 55-58.	7.8	21
69	An application of carbon-type semiconductors for the construction of a humidity-sensitive diode. Sensors and Actuators B: Chemical, 1992, 6, 61-65.	7.8	14
70	Diode-type humidity sensor using perovskite-type oxides operable at room temperature. Sensors and Actuators B: Chemical, 1991, 4, 227-232.	7.8	32
71	Influence of Water Treatment of LaF3Crystal on LaF3-Based Oxygen Sensor Workable at Room Temperature. Japanese Journal of Applied Physics, 1991, 30, L1327-L1329.	1.5	3
72	A LaF3-based oxygen sensor with perovskite-type oxide electrode operative at room temperature. Sensors and Actuators B: Chemical, 1990, 1, 195-198.	7.8	31

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73	Application of Perovskite-Type Oxides to the Sensing Electrode of a LaF3-Based Oxygen Sensor Workable at Room Temperature. Japanese Journal of Applied Physics, 1989, 28, L711-L713.	1.5	12
74	Donor-Acceptor Interactions in Adsorbate - Carbon Systems as the Basic Phenomenon for Gas Detection. Studies in Surface Science and Catalysis, 1985, , 140-149.	1.5	1
75	Preparation and characterization of polymers imprinted molecularly with ibuprofen and nitrobenzene. Copernican Letters, 0, 1, 117.	0.0	1