

# Jerzy P Lukaszewicz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/607871/publications.pdf>

Version: 2024-02-01

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	Chemisorption of Hydrogen Atoms on the Sidewalls of Armchair Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7376-7383.	3.1	79
2	Novel nitrogen-containing mesoporous carbons prepared from chitosan. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8961.	10.3	71
3	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. <i>Journal of Colloid and Interface Science</i> , 2003, 257, 13-30.	9.4	58
4	A microporous and high surface area active carbon obtained by the heat-treatment of chitosan. <i>Carbon</i> , 2012, 50, 3098-3101.	10.3	54
5	The Importance of Structural Factors for the Electrochemical Performance of Graphene/Carbon Nanotube/Melamine Powders towards the Catalytic Activity of Oxygen Reduction Reaction. <i>Materials</i> , 2021, 14, 2448.	2.9	47
6	Carbon Materials for Chemical Sensors: A Review. <i>Sensor Letters</i> , 2006, 4, 53-98.	0.4	45
7	Nitrogen-containing mesoporous carbons with high capacitive properties derived from a gelatin biomolecule. <i>Carbon</i> , 2015, 91, 200-214.	10.3	41
8	Graphene-Based Hydrogen Gas Sensors: A Review. <i>Processes</i> , 2020, 8, 633.	2.8	35
9	Diode-type humidity sensor using perovskite-type oxides operable at room temperature. <i>Sensors and Actuators B: Chemical</i> , 1991, 4, 227-232.	7.8	32
10	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. <i>International Journal of Quantum Chemistry</i> , 2007, 107, 2211-2219.	2.0	32
11	Synthesis of N-rich microporous carbon materials from chitosan by alkali activation using Na <sub>2</sub> CO <sub>3</sub> . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 201, 66-71.	3.5	32
12	A LaF <sub>3</sub> -based oxygen sensor with perovskite-type oxide electrode operative at room temperature. <i>Sensors and Actuators B: Chemical</i> , 1990, 1, 195-198.	7.8	31
13	High surface area micro-mesoporous graphene for electrochemical applications. <i>Scientific Reports</i> , 2021, 11, 22054.	3.3	30
14	Biotechnological fabrication of LaMnO <sub>3</sub> -carbon catalyst for n-butanol conversion to ketones. <i>Carbon</i> , 2010, 48, 99-106.	10.3	28
15	Morphologically disordered pore model for characterization of micro-mesoporous carbons. <i>Carbon</i> , 2017, 111, 358-370.	10.3	25
16	Urea treatment of nitrogen-doped carbon leads to enhanced performance for the oxygen reduction reaction. <i>Journal of Materials Research</i> , 2018, 33, 1612-1624.	2.6	24
17	The Improvement of Energy Storage Performance by Sucrose-Derived Carbon Foams via Incorporating Nitrogen Atoms. <i>Nanomaterials</i> , 2021, 11, 760.	4.1	24
18	LaF <sub>3</sub> -based oxygen sensor using Pb phthalocyanine electrode for quick response at room temperature. <i>Sensors and Actuators B: Chemical</i> , 1992, 9, 55-58.	7.8	21

#	ARTICLE	IF	CITATIONS
19	Metal-free nitrogen-rich carbon foam derived from amino acids for the oxygen reduction reaction. <i>Journal of Materials Science</i> , 2019, 54, 14859-14871.	3.7	21
20	Highly Effective Methods of Obtaining N-Doped Graphene by Gamma Irradiation. <i>Materials</i> , 2020, 13, 4975.	2.9	21
21	Green algae and gelatine derived nitrogen rich carbon as an outstanding competitor to Pt loaded carbon catalysts. <i>Scientific Reports</i> , 2021, 11, 7084.	3.3	21
22	Carbon-film-based humidity sensor containing sodium or potassium. Recovery effect. <i>Sensors and Actuators B: Chemical</i> , 1999, 60, 184-190.	7.8	20
23	Combined effect of nitrogen-doped functional groups and porosity of porous carbons on electrochemical performance of supercapacitors. <i>Scientific Reports</i> , 2021, 11, 18387.	3.3	20
24	The fungicidal properties of the carbon materials obtained from chitin and chitosan promoted by copper salts. <i>Materials Science and Engineering C</i> , 2015, 52, 31-36.	7.3	19
25	Sodium-doped carbon films for humidity sensor construction. <i>Sensors and Actuators B: Chemical</i> , 1996, 32, 221-226.	7.8	18
26	Influence of intermolecular interactions on the properties of carbon nanotubes. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	18
27	Highly effective three-dimensional functionalization of graphite to graphene by wet chemical exfoliation methods. <i>Adsorption</i> , 2019, 25, 631-638.	3.0	18
28	N-doped graphene foam obtained by microwave-assisted exfoliation of graphite. <i>Scientific Reports</i> , 2021, 11, 2044.	3.3	18
29	Electro-Exfoliation of Graphite to Graphene in an Aqueous Solution of Inorganic Salt and the Stabilization of Its Sponge Structure with Poly(Furfuryl Alcohol). <i>Nanomaterials</i> , 2019, 9, 971.	4.1	17
30	Molecularly Imprinted Polymer and Computational Study of (E)-4-(2- Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (cyano-3-(dimethylamino)propyl) methacrylate. <i>Current Analytical Chemistry</i> , 2020, 16, 119-137.	1.2	17
31	A novel carbon-based ionic conductor for humidity sensors. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 970-977.	7.8	16
32	Manufacture of activated carbons using Egyptian wood resources and its application in oligothiophene dye adsorption. <i>Arabian Journal of Chemistry</i> , 2020, 13, 5284-5291.	4.9	16
33	Adsorption of Hexavalent Chromium and Divalent Lead Ions on the Nitrogen-Enriched Chitosan-Based Activated Carbon. <i>Nanomaterials</i> , 2021, 11, 1907.	4.1	15
34	An application of carbon-type semiconductors for the construction of a humidity-sensitive diode. <i>Sensors and Actuators B: Chemical</i> , 1992, 6, 61-65.	7.8	14
35	Determination of carbon porosity from low-temperature nitrogen adsorption data. A comparison of the most frequently used methods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1995, 96, 105-111.	4.7	14
36	Title is missing!. <i>Journal of Materials Science</i> , 1997, 32, 6063-6068.	3.7	13

#	ARTICLE	IF	CITATIONS
37	Effective Synthesis of Carbon Hybrid Materials Containing Oligothiophene Dyes. <i>Materials</i> , 2019, 12, 3354.	2.9	13
38	Synthesis of N-Rich Activated Carbons from Chitosan by Chemical Activation. <i>Science of Advanced Materials</i> , 2014, 6, 290-297.	0.7	13
39	Improving the Performance of Zn-Air Batteries with N-Doped Electroexfoliated Graphene. <i>Materials</i> , 2020, 13, 2115.	2.9	13
40	Application of Perovskite-Type Oxides to the Sensing Electrode of a LaF <sub>3</sub> -Based Oxygen Sensor Workable at Room Temperature. <i>Japanese Journal of Applied Physics</i> , 1989, 28, L711-L713.	1.5	12
41	Fabrication of molecular-sieve-type carbons from <i>Salix viminalis</i> . <i>Microporous and Mesoporous Materials</i> , 2008, 116, 723-726.	4.4	12
42	Hybrid catalyst containing nano-sized LaMnO <sub>3</sub> and carbon black for high yield and selective ketonization of n-butanol. <i>Materials Research Bulletin</i> , 2011, 46, 327-332.	5.2	12
43	Nano-Structured Carbon Matrixes Obtained from Chitin and Chitosan by a Novel Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2623-2631.	0.9	12
44	Pyrolysis of <i>Chlorella vulgaris</i> as a green chemistry method for manufacturing of nitrogen doped porous carbon materials of high application potential. <i>Materials Express</i> , 2017, 7, 25-34.	0.5	12
45	Hierarchical porous carbon templated with silica spheres of a diameter of 14 nm from pure chitosan or a chitosan/ZnCl <sub>2</sub> solution. <i>Journal of Porous Materials</i> , 2018, 25, 1633-1648.	2.6	12
46	The effect of nitrogen species on the catalytic properties of N-doped graphene. <i>Scientific Reports</i> , 2021, 11, 23970.	3.3	12
47	Marine and Freshwater Feedstocks as a Precursor for Nitrogen-Containing Carbons: A Review. <i>Marine Drugs</i> , 2018, 16, 142.	4.6	11
48	Transfer of Triazine-Iron(II) Chromic Complexes Left by Iron Items on Textile Background and Human Skin. <i>Journal of Forensic Sciences</i> , 2010, 55, 944-952.	1.6	10
49	Pyrolytic production of microporous charcoals from different wood resources. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 98, 15-21.	5.5	10
50	Antimicrobial carbon materials incorporating copper nano-crystallites and their PLA composites. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	10
51	New approach towards preparation of efficient gas diffusion-type oxygen reduction electrode. <i>Journal of Materials Science</i> , 2006, 41, 6215-6220.	3.7	9
52	Discussion Remarks on the Role of Wood and Chitin Constituents during Carbonization. <i>Frontiers in Materials</i> , 2015, 2, .	2.4	9
53	Nanostructured composite TiO <sub>2</sub> /carbon catalysts of high activity for dehydration of n-butanol. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 198, 35-42.	3.5	9
54	Zinc Regarding the Utilization of Waste Tires by Pyrolysis. <i>Polish Journal of Environmental Studies</i> , 2016, 25, 2683-2687.	1.2	9

#	ARTICLE	IF	CITATIONS
55	Controlling of surface and humidity detecting properties of carbon films – selection of a precursor for carbonization. <i>Thin Solid Films</i> , 2001, 391, 270-274.	1.8	8
56	3D hierarchical porous hybrid nanostructure of carbon nanotubes and N-doped activated carbon. <i>Scientific Reports</i> , 2020, 10, 18793.	3.3	8
57	Biologically Active Constituents from <i>Salix viminalis</i> Bio-Oil and Their Protective Activity Against Hydrogen Peroxide-Induced Oxidative Stress in Chinese Hamster Ovary Cells. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 2153-2161.	2.9	7
58	Successful Manufacturing Protocols of N-Rich Carbon Electrodes Ensuring High ORR Activity: A Review. <i>Processes</i> , 2022, 10, 643.	2.8	7
59	1,2,4-Triazine-Based Chromogenic Reagents for the Detection of Microtraces of Various Metals Left on Human Skin*. <i>Journal of Forensic Sciences</i> , 2010, 55, 747-752.	1.6	6
60	Selected Aspects of Graphene Exfoliation as an Introductory Step Towards 3D Structuring of Graphene Nano-Sheets. <i>Current Graphene Science</i> , 2019, 2, 106-117.	0.5	6
61	Effect of <i>Salix viminalis</i> Pyrolysis Derived Antioxidants on Oxidative Stability of Diesters and Diester-Poly-olefin Mixtures. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 5117-5123.	3.7	5
62	Manufacture of a nanostructured CeO /carbon catalyst for n-butanol conversion. <i>Materials Letters</i> , 2014, 118, 119-122.	2.6	5
63	Synthesis of Hybrid Carbon Materials Consisting of N-Doped Microporous Carbon and Amorphous Carbon Nanotubes. <i>Materials</i> , 2020, 13, 2997.	2.9	5
64	Durability and narrow pore size distribution (PSD) of carbons fabricated from <i>Salix viminalis</i> wood. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2011, 32, 195-201.	0.7	4
65	Nanoscale Exfoliation of Graphene Sheets for Manufacturing of 3D Mesoporous Structures. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 9997-10000.	0.9	4
66	Influence of Water Treatment of LaF <sub>3</sub> Crystal on LaF <sub>3</sub> -Based Oxygen Sensor Workable at Room Temperature. <i>Japanese Journal of Applied Physics</i> , 1991, 30, L1327-L1329.	1.5	3
67	Porosity of carbon films applied to chemical sensor construction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 132, 127-135.	4.7	3
68	The stabilising influence of hematin on the properties of the oxygen-sensitive carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 1999, 55, 1-8.	7.8	3
69	<i>Salix viminalis</i> wood as a new precursor for manufacturing of carbon molecular sieves for effective methane/nitrogen separation. <i>Open Chemistry</i> , 2015, 13, .	1.9	3
70	Type A and B gelatin as precursors of silica-templated porous carbon with a specified number of nitrogen- and oxygen-containing functionalities. <i>Materials Express</i> , 2017, 7, 123-133.	0.5	3
71	Carbon Films for Humidity Sensors. <i>Sensor Letters</i> , 2006, 4, 281-304.	0.4	3
72	Alternative Synthesis Method for Carbon Nanotubes. <i>Small</i> , 2019, 15, 1904132.	10.0	2

#	ARTICLE	IF	CITATIONS
73	Donor-Acceptor Interactions in Adsorbate - Carbon Systems as the Basic Phenomenon for Gas Detection. <i>Studies in Surface Science and Catalysis</i> , 1985, , 140-149.	1.5	1
74	Preparation and characterization of polymers imprinted molecularly with ibuprofen and nitrobenzene. <i>Copernican Letters</i> , 0, 1, 117.	0.0	1
75	Critical issues in the surface modification of active carbons by the Diels-Alder reaction. <i>Materials Letters</i> , 2013, 101, 17-20.	2.6	0