Izabela Janowska

List of Publications by Year
in descending order

79 papers	2,635 citations	172457 29 h-index	197818 49 g-index
79 all docs	79 docs citations	79 times ranked	3847 citing authors

#	Article	IF	Citations
1	Tuning of nitrogen-doped carbon nanotubes as catalyst support for liquid-phase reaction. Applied Catalysis A: General, 2010, 380, 72-80.	4.3	196
2	Electrical Transport Measured in Atomic Carbon Chains. Nano Letters, 2013, 13, 3487-3493.	9.1	192
3	Nitrogenâ€Doped Carbon Nanotubes as a Highly Active Metalâ€Free Catalyst for Selective Oxidation. ChemSusChem, 2012, 5, 102-108.	6.8	162
4	Microwave synthesis of large few-layer graphene sheets in aqueous solution of ammonia. Nano Research, 2010, 3, 126-137.	10.4	123
5	Chitosan based-nanoparticles and nanocapsules: Overview, physicochemical features, applications of a nanofibrous scaffold, and bioprinting. International Journal of Biological Macromolecules, 2021, 167, 1176-1197.	7.5	95
6	N-doped carbon nanotubes for liquid-phase CC bond hydrogenation. Catalysis Today, 2008, 138, 62-68.	4.4	92
7	3D Analysis of the Morphology and Spatial Distribution of Nitrogen in Nitrogen-Doped Carbon Nanotubes by Energy-Filtered Transmission Electron Microscopy Tomography. Journal of the American Chemical Society, 2012, 134, 9672-9680.	13.7	87
8	Selenium nanoparticles synthesized using an eco-friendly method: dye decolorization from aqueous solutions, cell viability, antioxidant, and antibacterial effectiveness. Journal of Materials Research and Technology, 2021, 11, 85-97.	5.8	82
9	Synthesis of porous carbon nanotubes foam composites with a high accessible surface area and tunable porosity. Journal of Materials Chemistry A, 2013, 1, 9508.	10.3	69
10	A few-layer grapheneâ€“graphene oxide composite containing nanodiamonds as metal-free catalysts. Journal of Materials Chemistry A, 2014, 2, 11349-11357.	10.3	63
11	Catalytic unzipping of carbon nanotubes to few-layer graphene sheets under microwaves irradiation. Applied Catalysis A: General, 2009, 371, 22-30.	4.3	57
12	Mechanical thinning to make few-layer graphene from pencil lead. Carbon, 2012, 50, 3106-3110.	10.3	57
13	Hybrid Films of Graphene and Carbon Nanotubes for High Performance Chemical and Temperature Sensing Applications. Small, 2015, 11, 3485-3493.	10.0	54
14	Nitrogen-doped carbon nanotubes decorated silicon carbide as a metal-free catalyst for partial oxidation of H2S. Applied Catalysis A: General, 2014, 482, 397-406.	4.3	52
15	Microstructural Investigation of Magnetic CoFe2O4Nanowires inside Carbon Nanotubes by Electron Tomography. Nano Letters, 2008, 8, 1033-1040.	9.1	50
16	On the Evolution of Pt Nanoparticles on Few-Layer Graphene Supports in the High-Temperature Range. Journal of Physical Chemistry C, 2012, 116, 9274-9282.	3.1	47
17	Few layer graphene decorated with homogeneous magnetic Fe3O4 nanoparticles with tunable covering densities. Journal of Materials Chemistry A, 2014, 2, 2690.	10.3	45
18	A highly N-doped carbon phase â€œdressingâ€•of macroscopic supports for catalytic applications. Chemical Communications, 2015, 51, 14393-14396.	4.1	43

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19	Structured silica reactor with aligned carbon nanotubes as catalyst support for liquid-phase reaction. Journal of Molecular Catalysis A, 2007, 267, 92-97.	4.8	42
20	Few-layer graphene supporting palladium nanoparticles with a fully accessible effective surface for liquid-phase hydrogenation reaction. Catalysis Today, 2012, 189, 77-82.	4.4	38
21	Synthesis and Structure of a Four-Coordinate Aluminum Alkyl Cation/HB(C6F5)3Salt:Â Implication in a B(C6F5)3-Catalyzed Hydroalumination Reaction of Benzophenone or Benzaldehyde. Organometallics, 2004, 23, 4706-4710.	2.3	37
22	Ferrocenyl D-Ï€-A chromophores containing 3-dicyanomethylidene-1-indanone and 1,3-bis(dicyanomethylidene)indane acceptor groups. Journal of Organometallic Chemistry, 2003, 675, 35-41.	1.8	35
23	Donorâˆ'Acceptorâˆ'Donor Tetrazines Containing a Ferrocene Unit:Â Synthesis, Electrochemical and Spectroscopic Properties. Journal of Physical Chemistry A, 2006, 110, 12971-12975.	2.5	34
24	Ferrocenyl Dâ€"Ï€â€"A conjugated polyenes with 3-dicyanomethylidene-1-indanone and 1,3-bis(dicyanomethylidene)indane acceptor groups: Synthesis, linear and second-order nonlinear optical properties and electrochemistry. Journal of Organometallic Chemistry, 2006, 691, 323-330.	1.8	34
25	High temperature stability of platinum nanoparticles on few-layer graphene investigated by In Situ high resolution transmission electron microscopy. Nano Research, 2011, 4, 511-521.	10.4	33
26	Analytical electron tomography mapping of the SiC pore oxidation at the nanoscale. Nanoscale, 2010, 2, 2668.	5.6	32
27	Few-layered graphene-supported palladium as a highly efficient catalyst in oxygen reduction reaction. Chemical Communications, 2014, 50, 14433-14435.	4.1	32
28	Silicon carbide foam decorated with carbon nanofibers as catalytic stirrer in liquid-phase hydrogenation reactions. Applied Catalysis A: General, 2014, 469, 81-88.	4.3	32
29	Engineering of highly conductive and ultra-thin nitrogen-doped graphene films by combined methods of microwave irradiation, ultrasonic spraying and thermal annealing. Chemical Engineering Journal, 2018, 338, 764-773.	12.7	32
30	Industrial molasses waste in the performant synthesis of few-layer graphene and its Au/Ag nanoparticles nanocomposites. Photocatalytic and supercapacitance applications. Journal of Cleaner Production, 2022, 351, 131540.	9.3	32
31	Colloid Approach to the Sustainable Top-Down Synthesis of Layered Materials. ACS Omega, 2017, 2, 8610-8617.	3.5	30
32	Growth of Singleâ€Walled Carbon Nanotubes from Sharp Metal Tips. Small, 2009, 5, 2710-2715.	10.0	29
33	Macroscopic shaping of carbon nanotubes with high specific surface area and full accessibility. Materials Letters, 2012, 79, 128-131.	2.6	29
34	Carbon nanotube channels selectively filled with monodispersed Fe3âˆ'xO4 nanoparticles. Journal of Materials Chemistry A, 2013, 1, 13853.	10.3	27
35	The impact of synthesis method of CNT supported CeZrO2 and Ni-CeZrO2 on catalytic activity in WGS reaction. Catalysis Today, 2018, 301, 172-182.	4.4	24
36	A 3D insight on the catalytic nanostructuration of few-layer graphene. Nature Communications, 2014, 5, 4109.	12.8	23

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37	Selective Deposition of Palladium Nanoparticles inside the Bimodal Porosity of Î²-SiC Investigated by Electron Tomography. Journal of Physical Chemistry C, 2009, 113, 17711-17719.	3.1	22
38	Effect of nitriding/nanostructuration of few layer graphene supported iron-based particles; catalyst in graphene etching and carbon nanofilament growth. Physical Chemistry Chemical Physics, 2014, 16, 15988.	2.8	22
39	Influence of the reaction temperature on the oxygen reduction reaction on nitrogen-doped carbon nanotube catalysts. Catalysis Today, 2015, 249, 236-243.	4.4	22
40	Tribological and mechanical investigation of acrylic-based nanocomposite coatings reinforced with PMMA-grafted-MWCNT. Materials Chemistry and Physics, 2016, 175, 206-214.	4.0	22
41	Macronized aligned carbon nanotubes for use as catalyst support and ceramic nanoporous membrane template. Catalysis Today, 2009, 145, 76-84.	4.4	21
42	CNTsâ€™ array growth using the floating catalyst-CVD method over different substrates and varying hydrogen supply. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 231, 11-17.	3.5	21
43	New functional nanocomposites based on poly(trimethylene 2,5-furanoate) and few layer graphene prepared by in situ polymerization. EXPRESS Polymer Letters, 2018, 12, 530-542.	2.1	19
44	Few-Layer Graphene from Mechanical Exfoliation of Graphite-Based Materials: Structure-Dependent Characteristics. ChemEngineering, 2019, 3, 37.	2.4	19
45	Synthesis of transparent vertically aligned TiO₂nanotubes on a few-layer graphene (FLG) film. Chemical Communications, 2012, 48, 1224-1226.	4.1	18
46	Formation and characterization of carbonâ€“metal nano-contacts. Carbon, 2014, 77, 906-911.	10.3	18
47	Examining the impact of multi-layer graphene using cellular and amphibian models. 2D Materials, 2016, 3, 025009.	4.4	18
48	Bucky paper with improved mechanical stability made from vertically aligned carbon nanotubes for desulfurization process. Applied Catalysis A: General, 2011, 400, 230-237.	4.3	17
49	Polyvinyl Alcohol-Few Layer Graphene Composite Films Prepared from Aqueous Colloids. Investigations of Mechanical, Conductive and Gas Barrier Properties. Nanomaterials, 2020, 10, 858.	4.1	16
50	A single-stage functionalization and exfoliation method for the production of graphene in water: stepwise construction of 2D-nanostructured composites with iron oxide nanoparticles. Nanoscale, 2013, 5, 9073.	5.6	15
51	Effect of the Specific Surface Sites on the Reducibility of Î±-Fe₂O₃/Graphene Composites by Hydrogen. Journal of Physical Chemistry C, 2013, 117, 20313-20319.	3.1	15
52	Catalytic synthesis of a high aspect ratio carbon nanotubes bridging carbon felt composite with improved electrical conductivity and effective surface area. Applied Catalysis A: General, 2011, 392, 238-247.	4.3	14
53	Influence of ethanol in the presence of H2 on the catalytic growth of vertically aligned carbon nanotubes. Applied Catalysis A: General, 2012, 423-424, 7-14.	4.3	14
54	Comparing Multi-Walled Carbon Nanotubes and Halloysite Nanotubes as Reinforcements in EVA Nanocomposites. Materials, 2020, 13, 3809.	2.9	14

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55	Hydrophobic gold catalysts: From synthesis on passivated silica to synthesis on few-layer graphene. Catalysis Today, 2014, 235, 90-97.	4.4	13
56	Activation of few layer graphene by Î¼W-assisted oxidation in water via formation of nanoballs â€“ Support for platinum nanoparticles. Journal of Colloid and Interface Science, 2015, 451, 221-230.	9.4	13
57	Circular dichroism spectra of planar chiral 2-substituted ferrocenecarboxaldehydes and 2-ferrocenyl-1,1-dicyanoethylenes. Tetrahedron: Asymmetry, 2003, 14, 3271-3273.	1.8	12
58	High surface-to-volume hybrid platelet reactor filled with catalytically grown vertically aligned carbon nanotubes. Catalysis Today, 2010, 150, 133-139.	4.4	12
59	A Convenient Synthesis of Conjugated Ï‰-Arylpolyenals via Wittig Reaction with (1,3-Dioxan-2-yl-methyl)triphenylphosphonium Bromide/Sodium Hydride. Synthetic Communications, 2003, 33, 381-385.	2.1	11
60	Comparative study on the properties of poly(trimethylene terephthalate) -based nanocomposites containing multi-walled carbon (MWCNT) and tungsten disulfide (INT-WS₂) nanotubes. Polymers for Advanced Technologies, 2017, 28, 645-657.	3.2	11
61	Few Layer Graphene/TiO₂ Composites for Enhanced Solar-Driven H₂ Production from Methanol. ACS Sustainable Chemistry and Engineering, 2021, 9, 3633-3646.	6.7	10
62	Structural impact of carbon nanofibers/few-layer-graphene substrate decorated with Ni for CO2 methanation via inductive heating. Applied Catalysis B: Environmental, 2021, 298, 120589.	20.2	9
63	A new recyclable Pd catalyst supported on vertically aligned carbon nanotubes for microwaves-assisted Heck reactions. Comptes Rendus Chimie, 2011, 14, 663-670.	0.5	8
64	Edges fractal approach in graphene â€“ Defects density gain. Carbon, 2017, 123, 395-401.	10.3	8
65	Great enhancement of mechanical features in <scp>PLA</scp> based composites containing aligned few layer graphene (<scp>FLG</scp>), the effect of <scp>FLG</scp> loading, size, and dispersion on mechanical and thermal properties. Journal of Applied Polymer Science, 2021, 138, 51300.	2.6	8
66	Catalytic Action of Gold and Copper Crystals in the Growth of Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2011, 11, 3609-3615.	0.9	7
67	High yield graphene and few-layer graphene synthesis assisted by microwaves. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1009-1011.	2.7	7
68	Tuning the structure of in-situ synthesized few layer graphene/carbon composites into nanoporous vertically aligned graphene electrodes with high volumetric capacitance. Electrochimica Acta, 2019, 308, 206-216.	5.2	7
69	Electrical Transport in â€œFew-Layer Grapheneâ€•Film Prepared by the Hot-Spray Technique: The Effect of Thermal Treatment. Journal of Physical Chemistry C, 2014, 118, 873-880.	3.1	6
70	Evaporation-induced self-assembling of few-layer graphene into a fractal-like conductive macro-network with a reduction of percolation threshold. Physical Chemistry Chemical Physics, 2015, 17, 7634-7638.	2.8	5
71	FLGâ€“high aspect ratio MWNTs hybrid film prepared by hot spray technique. Materials Letters, 2013, 96, 57-59.	2.6	4
72	The Electrical Property of Large Few Layer Graphene Flakes Obtained by Microwaves Assisted Exfoliation of Expanded Graphite. Current Microwave Chemistry, 2016, 3, 139-144.	0.8	4

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73	Few layer graphene as a template for Fe-based 2D nanoparticles. FlatChem, 2018, 9, 15-20.	5.6	4
74	Charge-assisted Nâ€"H...I and Câ€"H...I hydrogen bonding in (1R,2S)-1-(ferrocenylmethyl)-2-(methoxymethyl)pyrrolidinium iodide. Acta Crystallographica Section C: Crystal Structure Communications, 2005, 61, m55-m57.	0.4	3
75	Urchin-like self-supported carbon nanotubes with macroscopic shaping and fully accessible surface. Materials Letters, 2011, 65, 2482-2485.	2.6	2
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