Urszula Narkiewicz

List of Publications by Year
in descending order

143	2,491	257101 24	264894 42
papers	citations	h-index	g-index

150	150	150	2922
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly microporous activated carbons from biomass for CO 2 capture and effective micropores at different conditions. Journal of CO2 Utilization, 2017, 18, 73-79.	3.3	265
2	Equilibrium and kinetic studies on acid dye Acid Red 88 adsorption by magnetic ZnFe2O4 spinel ferrite nanoparticles. Journal of Colloid and Interface Science, 2013, 398, 152-160.	5.0	217
3	Comparison of Optimized Isotherm Models and Error Functions for Carbon Dioxide Adsorption on Activated Carbon. Journal of Chemical & Engineering Data, 2015, 60, 3148-3158.	1.0	99
4	Catalytic decomposition of hydrocarbons on cobalt, nickel and iron catalysts to obtain carbon nanomaterials. Applied Catalysis A: General, 2010, 384, 27-35.	2.2	70
5	Fluorination of Carbon Nanotubes â˜' A Review. Journal of Fluorine Chemistry, 2017, 200, 179-189.	0.9	65
6	Cobalt-based Catalysts for Ammonia Decomposition. Materials, 2013, 6, 2400-2409.	1.3	63
7	Ferromagnetic resonance and ac conductivity of a polymer composite of Fe3O4 and Fe3C nanoparticles dispersed in a graphite matrix. Journal of Applied Physics, 2005, 97, 024304.	1.1	57
8	Improvement of CO 2 uptake of activated carbons by treatment with mineral acids. Chemical Engineering Journal, 2017, 309, 159-171.	6.6	53
9	Double-Layer Model of the Fused Iron Catalyst for Ammonia Synthesisâ€. Langmuir, 1999, 15, 5785-5789.	1.6	50
10	XRD, TEM and magnetic resonance studies of iron carbide nanoparticle agglomerates in a carbon matrix. Carbon, 2004, 42, 1127-1132.	5.4	43
11	Modification of Commercial Activated Carbons for CO₂Adsorption. Acta Physica Polonica A, 2016, 129, 394-401.	0.2	43
12	Raman Scattering from ZnO(Fe) Nanoparticles. Acta Physica Polonica A, 2008, 114, 1323-1328.	0.2	38
13	Titanium dioxide modified with various amines used as sorbents of carbon dioxide. New Journal of Chemistry, 2017, 41, 1549-1557.	1.4	37
14	Surface characteristics of KOH-treated commercial carbons applied for CO₂ adsorption. Adsorption Science and Technology, 2018, 36, 478-492.	1.5	37
15	Poisoning of iron catalyst by sulfur. Catalysis Today, 2007, 124, 43-48.	2.2	35
16	Raman study of surface optical phonons in ZnO(Mn) nanoparticles. Journal of Alloys and Compounds, 2014, 585, 214-219.	2.8	35
17	Effective processes of phenol degradation on Fe3O4â€“TiO2 nanostructured magnetic photocatalyst. Journal of Physics and Chemistry of Solids, 2020, 136, 109178.	1.9	35
18	Raman scattering from ZnO incorporating Fe nanoparticles: Vibrational modes and low-frequency acoustic modes. Journal of Alloys and Compounds, 2010, 507, 386-390.	2.8	34

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19	Impact of multiwall carbon nanotubes on the fatigue strength of adhesive joints. International Journal of Adhesion and Adhesives, 2017, 73, 16-21.	1.4	34
20	Sulfur Poisoning of Iron Ammonia Catalyst Probed by Potassium Desorption. Reaction Kinetics and Catalysis Letters, 2001, 74, 143-149.	0.6	32
21	Activated Carbons from Molasses as CO₂Sorbents. Acta Physica Polonica A, 2016, 129, 402-404.	0.2	29
22	Model of active surface of iron catalyst for ammonia synthesis. Vacuum, 1994, 45, 267-269.	1.6	28
23	Selective methane oxidation to formaldehyde using polymorphic T-, M-, and H-forms of niobium(V) oxide as catalysts. Chemical Papers, 2008, 62, .	1.0	28
24	Carbon Spheres as CO2 Sorbents. Applied Sciences (Switzerland), 2019, 9, 3349.	1.3	26
25	Simultaneous purification and functionalization of carbon nanotubes using chlorination. Journal of Materials Research, 2012, 27, 2368-2374.	1.2	24
26	Study of mechanical properties of concrete with low concentration of magnetic nanoparticles. Journal of Non-Crystalline Solids, 2008, 354, 4515-4518.	1.5	23
27	Surface optical phonons in ZnO(Co) nanoparticles: Raman study. Journal of Alloys and Compounds, 2012, 540, 49-56.	2.8	22
28	Oxidation of iron surface covered with sulphur and/or potassium. Applied Surface Science, 1993, 72, 45-48.	3.1	21
29	A new method for in situ determination of number of active sites in iron catalysts for ammonia synthesis and decomposition. Applied Surface Science, 2002, 196, 423-428.	3.1	21
30	Synthesis by Wet Chemical Method and Characterization of Nanocrystalline ZnO Doped with Fe₂O₃. Acta Physica Polonica A, 2008, 113, 1695-1700.	0.2	20
31	Removal of Rhodamine B from aqueous solution by ZnFe₂O₄ nanocomposite with magnetic separation performance. Polish Journal of Chemical Technology, 2017, 19, 65-74.	0.3	20
32	Effect of Cobalt on the Activity of CuO/CeO2 Catalyst for the Selective Oxidation of CO. Catalysis Letters, 2010, 134, 196-203.	1.4	19
33	Preparation and characterization of multi-walled carbon nanotubes grown on transition metal catalysts. Polish Journal of Chemical Technology, 2014, 16, 117-122.	0.3	19
34	Synthesis and antibacterial properties of Fe₃O₄-Ag nanostructures. Polish Journal of Chemical Technology, 2016, 18, 110-116.	0.3	19
35	Preparation and characterisation of carbon spheres for carbon dioxide capture. Journal of Porous Materials, 2019, 26, 19-27.	1.3	19
36	Dynamic magnetic properties of ZnO nanocrystals incorporating Fe. Journal of Alloys and Compounds, 2011, 509, 3756-3759.	2.8	18

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37	Magnetic study of Fe2O3/ZnO nanocomposites. Physica B: Condensed Matter, 2010, 405, 4054-4058.	1.3	17
38	Chlorination of Carbon Nanotubes Obtained on the Different Metal Catalysts. Journal of Nanomaterials, 2013, 2013, 1-9.	1.5	17
39	TiO 2 /titanate composite nanorod obtained from various alkali solutions as CO 2 sorbents from exhaust gases. Microporous and Mesoporous Materials, 2016, 231, 117-127.	2.2	17
40	Influence of the calcination of TiO2-reduced graphite hybrid for the photocatalytic reduction of carbon dioxide. Catalysis Today, 2021, 380, 32-40.	2.2	17
41	ZnFe2O4/ZnO nanoparticles obtained by coprecipitation route, XPS and TEM study. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1420-1423.	0.8	16
42	Terbium content affects the luminescence properties of ZrO 2 :Tb nanoparticles for mammary cancer imaging in mice. Optical Materials, 2017, 74, 16-26.	1.7	16
43	Adsorption of carbon dioxide on TEPA-modified TiO₂/titanate composite nanorods. New Journal of Chemistry, 2017, 41, 7870-7885.	1.4	16
44	Synthesis and Characterization of ZnO Doped with Fe₂O₃- Hydrothermal Synthesis and Calcination Process. Acta Physica Polonica A, 2009, 116, S-133-S-135.	0.2	16
45	Preparation of Activated Carbon from Beet Molasses and TiO₂as the Adsorption of CO₂. Acta Physica Polonica A, 2016, 129, 158-161.	0.2	16
46	Influence of potassium/oxygen layer on properties of iron surfaces. Applied Catalysis A: General, 1999, 182, 379-384.	2.2	15
47	Synthesis of carbon-encapsulated nickel nanoparticles. Applied Surface Science, 2010, 256, 5249-5253.	3.1	15
48	Studies on the Kinetics of Carbon Deposit Formation on Nanocrystalline Iron Stabilized with Structural Promoters. Journal of Physical Chemistry C, 2014, 118, 15434-15439.	1.5	15
49	Transition metals in ZnO nanocrystals: Magnetic and structural properties. Science of Sintering, 2013, 45, 31-48.	0.5	15
50	The preparation and EPR study of nanocrystalline ZnFe₂O₄. Journal of Physics: Conference Series, 2009, 146, 012014.	0.3	14
51	Raman study of surface optical phonons in hydrothermally obtained ZnO(Mn) nanoparticles. Optical Materials, 2016, 58, 317-322.	1.7	14
52	Adsorptive removal of cationic dye from aqueous solutions by ZnO/ZnMn₂O₄ nanocomposite. Separation Science and Technology, 2018, 53, 1295-1306.	1.3	14
53	Carbon-coated cobalt nanoparticles. Materials Science and Engineering C, 2007, 27, 1273-1276.	3.8	13
54	Magnetic properties of ZnFe2O4 ferrite nanoparticles embedded in ZnO matrix. Applied Physics Letters, 2012, 100, .	1.5	13

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55	Impact of yttria stabilization on Tb³⁺ intra-shell luminescence efficiency in zirconium dioxide nanopowders. Journal of Physics Condensed Matter, 2013, 25, 194106.	0.7	13
56	Removal of metal particles from carbon nanotubes using conventional and microwave methods. Separation and Purification Technology, 2014, 136, 105-110.	3.9	13
57	Impact on CO2 Uptake of MWCNT after Acid Treatment Study. Journal of Nanomaterials, 2017, 2017, 1-11.	1.5	13
58	Preparation and characterization of magnetic carbon nanomaterials bearing APTSâ€“silica on their surface. Journal of Materials Science, 2010, 45, 1100-1106.	1.7	12
59	Laser power influence on Raman spectra of ZnO(Co) nanoparticles. Journal of Physics and Chemistry of Solids, 2016, 91, 80-85.	1.9	12
60	Magnetic properties of ZnO(Co) nanocrystals. Journal of Alloys and Compounds, 2013, 561, 247-251.	2.8	11
61	High Pressure Synthesis versus Calcination â€“ Different Approaches to Crystallization of Zirconium Dioxide. Polish Journal of Chemical Technology, 2014, 16, 99-105.	0.3	11
62	Pressureless and Low-Pressure Synthesis of Microporous Carbon Spheres Applied to CO2 Adsorption. Molecules, 2020, 25, 5328.	1.7	11
63	ZnO/Carbon Spheres with Excellent Regenerability for Post-Combustion CO2 Capture. Materials, 2021, 14, 6478.	1.3	11
64	Segregation of carbon in iron and molybdenum. Surface Science, 1996, 352-354, 223-227.	0.8	10
65	The comparison of the different adsorption states of non-metals on the iron surface. Vacuum, 1999, 54, 3-7.	1.6	10
66	Magnetic properties of the micro-silica/cement matrix with carbon-coated cobalt nanoparticles and free radical DPPH. Journal of Non-Crystalline Solids, 2008, 354, 4510-4514.	1.5	10
67	Influence of SOP modes on Raman spectra of ZnO(Fe) nanoparticles. Optical Materials, 2015, 42, 118-123.	1.7	10
68	Magnetic and electrical properties of carbon nanotube/epoxy composites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 254, 114507.	1.7	10
69	Adsorption of Acid Red 88 Anionic Dye from Aqueous Solution onto ZnO/ZnMn2O4 Nanocomposite: Equilibrium, Kinetics, and Thermodynamics. Polish Journal of Environmental Studies, 2017, 26, 2585-2593.	0.6	10
70	Growth of iron oxides on the Fe(111) surface precovered with sulphur and/or potassium. Applied Surface Science, 1997, 108, 379-384.	3.1	9
71	Kinetics of Carbon Deposit Formation by Methane Decomposition on Nanocrystalline Iron Carbide. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 99-105.	1.0	9
72	Temperature dependence of FMR spectrum of Fe3C magnetic agglomerates. Journal of Physics: Conference Series, 2005, 10, 151-154.	0.3	9

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73	In situ synthesis, morphology and magnetic properties of poly(etherâ€“ester) multiblock copolymer/carbon-covered nickel nanosystems. Journal of Non-Crystalline Solids, 2010, 356, 1893-1901.	1.5	9
74	Structural and optical properties of ZnOâ€“Al2O3 nanopowders prepared by chemical methods. Journal of Luminescence, 2020, 224, 117273.	1.5	9
75	The Effect of the Modification of Carbon Spheres with ZnCl2 on the Adsorption Properties towards CO2. Molecules, 2022, 27, 1387.	1.7	9
76	Interpretation of kinetics of iron surface oxidation involving the real structure of single crystal samples. European Physical Journal D, 1993, 43, 869-873.	0.4	8
77	Chlorine as a poison of the fused iron catalyst for ammonia synthesis. Applied Catalysis A: General, 1996, 134, 331-338.	2.2	8
78	Preparation of Nanocrystalline Iron Carbide by Reaction of Iron with Methane. Solid State Phenomena, 2003, 94, 181-184.	0.3	8
79	The Increase of the Micoporosity and CO2 Adsorption Capacity of the Commercial Activated Carbon CWZ-22 by KOH Treatment. , 0, , .		8
80	Effect of microwave assisted solvothermal process parameters on carbon dioxide adsorption properties of microporous carbon materials. Microporous and Mesoporous Materials, 2021, 314, 110829.	2.2	8
81	CO2 Reduction to Valuable Chemicals on TiO2-Carbon Photocatalysts Deposited on Silica Cloth. Catalysts, 2022, 12, 31.	1.6	8
82	Mechanism of the Initial Stage of the Oxidation of the Clean and Precovered with Nonmetals Iron Surfaceâ€. Langmuir, 1999, 15, 5790-5794.	1.6	7
83	Nucleation of the Fe3C in reaction of methane with nanocrystalline iron. Journal of Materials Research, 2005, 20, 386-393.	1.2	7
84	Preparation of nanocrystalline ironâ€“carbon materials as fillers for polymers. Nanotechnology, 2007, 18, 405601.	1.3	7
85	Carbon covered magnetic nickel nanoparticles embedded in PBT-PTMO polymer: Preparation and magnetic properties. Journal of Non-Crystalline Solids, 2009, 355, 1400-1404.	1.5	7
86	Magnetic properties of nanocrystalline ZnO doped with MnO and CoO. Journal of Physics: Conference Series, 2010, 200, 072058.	0.3	7
87	Magnetic properties of ZnFe2O4 nanoparticles. Open Physics, 2012, 10, .	0.8	7
88	Magnetic study of 0.20(Fe2O3)/0.80(ZnO) nanocomposite. Journal of Magnetism and Magnetic Materials, 2014, 361, 12-18.	1.0	7
89	Nanocomposite Titaniaâ€“Carbon Spheres as CO₂ and CH₄ Sorbents. ACS Omega, 2020, 5, 1966-1973.	1.6	7
90	Effective green ammonia synthesis from gaseous nitrogen and CO2 saturated-water vapour utilizing a novel photocatalytic reactor. Chemical Engineering Journal, 2022, 446, 137030.	6.6	7

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91	The effect of the real structure of monocrystalline sample on the segregation of carbon in iron. Vacuum, 1997, 48, 347-350.	1.6	6
92	Metallic Nano-Materials and Nanostructures: Development of Technology Roadmap. Solid State Phenomena, 2006, 114, 345-0.	0.3	6
93	Studies of hydrogen interaction with carbon deposit containing carbon nanotubes. Journal of Non-Crystalline Solids, 2009, 355, 1370-1375.	1.5	6
94	Copper removal by carbon nanomaterials bearing cyclam-functionalized silica. Open Chemistry, 2010, 8, 341-346.	1.0	6
95	Adsorption of metal ions on magnetic carbon nanomaterials bearing chitosan-functionalized silica. International Journal of Materials Research, 2010, 101, 1543-1547.	0.1	6
96	Functionalization of gold-coated carbon nanotubes with self-assembled monolayers of thiolates. Journal of Materials Science, 2012, 47, 3463-3467.	1.7	6
97	FMR study of 0.30(Fe₂O₃)/0.70(ZnO) nanocomposite. EPJ Applied Physics, 2013, 62, 10402.	0.3	6
98	Magnetic moment centers in titanium dioxide photocatalysts loaded on reduced graphene oxide flakes. Reviews on Advanced Materials Science, 2021, 60, 57-63.	1.4	6
99	Effect of the real iron crystal structure on the segregation of sulphur. Applied Surface Science, 1998, 134, 63-68.	3.1	5
100	Nanocrystalline ZnO Doped with Fe2O3- Magnetic and Structural Properties. Acta Physica Polonica A, 2011, 119, 689-691.	0.2	5
101	Kinetics of the oxidation of the iron surface covered with potassium â€" geometrical aspect. Surface Science, 1997, 377-379, 578-582.	0.8	4
102	Oxidation of the Fe(111) surface covered with carbon or nitrogen. Surface Science, 2000, 454-456, 227-233.	0.8	4
103	On the cleaning of monocrystalline metallic samples from impurities. Applied Surface Science, 2005, 252, 98-103.	3.1	4
104	Microwave-Assisted Acid Digestion Method for Purification of Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 439-443.	1.0	4
105	Magnetic study of nanocrystalline 0.95MnO/0.05ZnO. Journal of Magnetism and Magnetic Materials, 2013, 326, 225-231.	1.0	4
106	Increase the Microporosity and CO₂ Adsorption of a Commercial Activated Carbon. Applied Mechanics and Materials, 0, 749, 17-21.	0.2	4
107	Magnetic studies of 0.7(Fe2O3)/0.3(ZnO) nanocomposites in nanopowder form and dispersed in polymer matrix. Materials Science-Poland, 2016, 34, 286-296.	0.4	4
108	Superparamagnetic and ferrimagnetic behavior of nanocrystalline ZnO(MnO). Physica E: Low-Dimensional Systems and Nanostructures, 2018, 98, 10-16.	1.3	4

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109	Low Concentration Effect of Fe3O4and Fe3C Magnetic Nanoparticles in Non-Magnetic Matrix on the FMR Spectra. Acta Physica Polonica A, 2005, 108, 297-302.	0.2	4
110	Low-Frequency Raman Scattering from ZnO(Fe) Nanoparticles. Acta Physica Polonica A, 2009, 116, 65-67.	0.2	4
111	FMR Study of Temperature Dependence of Magnetic Properties of Nanocrystalline 0.90(Fe2O3)/0.10ZnO. Acta Physica Polonica A, 2011, 120, 1070-1073.	0.2	4
112	Photoluminescence and Chromaticity Properties of ZnO Nanopowders Made by a Microwave Hydrothermal Method. Acta Physica Polonica A, 2011, 120, 908-910.	0.2	4
113	Effect of Synthesis Parameters of Graphene/Fe₂O₃ Nanocomposites on Their Structural and Electrical Conductivity Properties. Acta Physica Polonica A, 2017, 132, 1424-1429.	0.2	4
114	Microporous carbon spheres modified with EDA used as carbon dioxide sorbents. Advanced Materials Letters, 2018, 9, 432-435.	0.3	4
115	The effect of the real crystal structure of iron on the behaviour of surface contaminants. Surface Science, 1998, 402-404, 502-507.	0.8	3
116	The Size Distribution of Iron Nanoparticles Produced by the Carburisation Process. Solid State Phenomena, 2003, 94, 177-180.	0.3	3
117	FMR Study of Carbon Coated Cobalt Nanoparticles Dispersed in a Paraffin Matrix. Solid State Phenomena, 2007, 128, 193-198.	0.3	3
118	Temperature Dependence of the FMR Spectra of Polymer Composites with Nanocrystalline Î±-Fe/C Filler. Solid State Phenomena, 0, 128, 213-218.	0.3	3
119	Removal of SO₂ from gases on carbon materials. Polish Journal of Chemical Technology, 2012, 14, 41-45.	0.3	3
120	FMR and Magnetization Study of ZnFe₂O₄ Nanoparticles in 0.40Fe₂O₃/0.60ZnO Nanocomposite. IEEE Transactions on Magnetics, 2014, 50, 1-6.	1.2	3
121	Magnetometric Study Of ZnO/CoO Nanocomposites. Reviews on Advanced Materials Science, 2018, 57, 11-25.	1.4	3
122	Magnetic Resonance Study of MnO/ZnO Nanopowders. Acta Physica Polonica A, 2011, 120, 1074-1079.	0.2	3
123	Changes in Porous Parameters of the Ion Exchanged X Zeolite and Their Effect on CO2 Adsorption. Molecules, 2021, 26, 7520.	1.7	3
124	Electron-induced ammonia adsorption on iron. Journal of Electron Spectroscopy and Related Phenomena, 2003, 128, 215-221.	0.8	2
125	Comparison Studies between Hydrogenation and Oxidation of MWNTs Followed by Acid Treatment. Journal of Nanoscience and Nanotechnology, 2011, 11, 7926-7930.	0.9	2
126	Magnetic study of Fe₃O₄/Ag nanoparticles. EPJ Applied Physics, 2018, 83, 10402.	0.3	2

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127	New Insight on Carbon Dioxideâ€Mediated Hydrogen Production**. ChemistryOpen, 2022, 11, e202100262.	0.9	2
128	New method of the surface characterisation of a metal catalyst under real reaction conditions using electron spectroscopy. Studies in Surface Science and Catalysis, 2000, 130, 3113-3118.	1.5	1
129	Thermal diffusion of potassium on the modified iron surface. Applied Surface Science, 2005, 252, 833-838.	3.1	1
130	Utilization of spent iron catalyst for ammonia synthesis. Polish Journal of Chemical Technology, 2007, 9, 108-113.	0.3	1
131	Catalytic Decomposition of Ethylene on Nanocrystalline Cobalt. Solid State Phenomena, 2007, 128, 249-254.	0.3	1
132	Nucleation in a gasâ€solid state reaction. Crystal Research and Technology, 2012, 47, 1164-1171.	0.6	1
133	Magnetic resonance study of nanocrystalline 0.10MnO/0.90ZnO. Open Physics, 2013, 11, .	0.8	1
134	Synthesis of nanocrystalline nickel and iron carbides by decomposition of hydrocarbons. Materials Science-Poland, 2013, 31, 65-70.	0.4	1
135	Magnetic Study of ZnMnOâ‚‚ in ZnO/MnO Nanocomposites. IEEE Transactions on Magnetics, 2021, 57, 1-12.	1.2	1
136	DC magnetization of titania supported on reduced graphene oxide flakes. Reviews on Advanced Materials Science, 2021, 60, 794-800.	1.4	1
137	Metallic Nano-Materials and Nanostructures: Development of Technology Roadmap. Solid State Phenomena, 0, , 345-0.	0.3	1
138	Effect of the iron catalyst mechanical treatment on the activity in ammonia synthesis reaction. Studies in Surface Science and Catalysis, 1995, , 677-682.	1.5	0
139	The surface analysis method bridging the pressure gap. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 208, 277-281.	2.3	0
140	Synthesis of Nanocarbon Materials by Carburization of Nanocrystalline Iron. Materials Research Society Symposia Proceedings, 2005, 879, 1.	0.1	0
141	Magnetic resonance study of carbon encapsulated Ni nanoparticles. Open Chemistry, 2012, 10, 1963-1968.	1.0	0
142	Magnetic Properties of Fe2O3/ZnO Nanocomposites. NATO Science for Peace and Security Series C: Environmental Security, 2015, , 93-109.	0.1	0
143	Magnetic Resonance Studies of Hybrid Nanocomposites Containing Nanocrystalline TiO2 and Graphene-Related Materials. Materials, 2022, 15, 2244.	1.3	0