

Magdalena Parlinska-Wojtan

List of Publications by Year in descending order

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113
papers

3,164
citations

147566

31
h-index

189595

50
g-index

120
all docs

120
docs citations

120
times ranked

4690
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Active and Stable Single-Atom Cu Catalysts Supported by a Metal-Organic Framework. Journal of the American Chemical Society, 2019, 141, 5201-5210.	6.6	361
2	Applications of Noble Metal-Based Nanoparticles in Medicine. International Journal of Molecular Sciences, 2018, 19, 4031.	1.8	172
3	Characterization of Silver Nanoparticle Products Using Asymmetric Flow Field Flow Fractionation with a Multidetector Approach – a Comparison to Transmission Electron Microscopy and Batch Dynamic Light Scattering. Analytical Chemistry, 2012, 84, 2678-2685.	3.2	142
4	FTIR-ATR spectroscopy of pollen and honey as a tool for unifloral honey authentication. The case study of rape honey. Food Control, 2018, 84, 33-40.	2.8	99
5	Encapsulation of Ru nanoparticles: Modifying the reactivity toward CO and CO ₂ methanation on highly active Ru/TiO ₂ catalysts. Applied Catalysis B: Environmental, 2020, 270, 118846.	10.8	84
6	Lattice dynamics of NiTi austenite, martensite, and R-phase. Physical Review B, 2002, 66, .	1.1	83
7	Green synthesis and antibacterial effects of aqueous colloidal solutions of silver nanoparticles using camomile terpenoids as a combined reducing and capping agent. Bioprocess and Biosystems Engineering, 2016, 39, 1213-1223.	1.7	80
8	Deactivation of Au/CeO ₂ catalysts during CO oxidation: Influence of pretreatment and reaction conditions. Journal of Catalysis, 2016, 341, 160-179.	3.1	67
9	Raising the CO ₂ Methanation Activity of a Ru/Al ₂ O ₃ Catalyst by Activated Modification of Metal-Support Interactions. Angewandte Chemie - International Edition, 2020, 59, 22763-22770.	7.2	66
10	Microstructure and mechanical properties of Al-Si-N transparent hard coatings deposited by magnetron sputtering. Surface and Coatings Technology, 2007, 202, 884-889.	2.2	62
11	Varied-shaped gold nanoparticles with nanogram killing efficiency as potential antimicrobial surface coatings for the medical devices. Scientific Reports, 2021, 11, 12546.	1.6	61
12	Controlling the O-Vacancy Formation and Performance of Au/ZnO Catalysts in CO ₂ Reduction to Methanol by the ZnO Particle Size. ACS Catalysis, 2021, 11, 9022-9033.	5.5	53
13	Nanocrystalline-to-amorphous transition in nanolaminates grown by low temperature atomic layer deposition and related mechanical properties. Applied Physics Letters, 2012, 100, .	1.5	52
14	In-situ SEM indentation studies of the deformation mechanisms in TiN, CrN and TiN/CrN. Micron, 2009, 40, 22-27.	1.1	50
15	Morphological, structural and mechanical properties of NbN thin films deposited by reactive magnetron sputtering. Surface and Coatings Technology, 2006, 200, 6544-6548.	2.2	49
16	Microstructure and nanohardness properties of Zr-Al-N and Zr-Cr-N thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 593-598.	0.9	47
17	CO ₂ Reduction to Methanol on Au/CeO ₂ Catalysts: Mechanistic Insights from Activation/Deactivation and SSITKA Measurements. ACS Catalysis, 2020, 10, 3580-3594.	5.5	47
18	In vitro studies of the adhesion of diamond-like carbon thin films on CoCrMo biomedical implant alloy. Acta Materialia, 2011, 59, 4678-4689.	3.8	44

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19	Effects of laser surface texturing on the wear and failure mechanism of grey cast iron reciprocating against steel under starved lubrication conditions. <i>Wear</i> , 2017, 386-387, 29-38.	1.5	44
20	FTIR analysis of molecular composition changes in hazel pollen from unpolluted and urbanized areas. <i>Aerobiologia</i> , 2017, 33, 1-12.	0.7	43
21	Characterization of thermally treated TiAlSiN coatings by TEM and nanoindentation. <i>Surface and Coatings Technology</i> , 2004, 188-189, 344-350.	2.2	42
22	Analysis of morphological and molecular composition changes in allergenic <i>Artemisia vulgaris</i> L. pollen under traffic pollution using SEM and FTIR spectroscopy. <i>Environmental Science and Pollution Research</i> , 2016, 23, 23203-23214.	2.7	42
23	Plastic deformation modes of gallium arsenide in nanoindentation and nanoscratching. <i>Applied Physics Letters</i> , 2007, 90, 031902.	1.5	41
24	Spectroscopic assessment of the role of hydrogen in surface defects, in the electronic structure and transport properties of TiO ₂ , ZnO and SnO ₂ nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1417-1430.	1.3	40
25	Phospholipid-protein balance in affective disorders: Analysis of human blood serum using Raman and FTIR spectroscopy. A pilot study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 131, 287-296.	1.4	40
26	ROS-Mediated Apoptosis and Autophagy in Ovarian Cancer Cells Treated with Peanut-Shaped Gold Nanoparticles. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 1993-2011.	3.3	40
27	Conventional and high resolution TEM investigation of the microstructure of compositionally graded TiAlSiN thin films. <i>Surface and Coatings Technology</i> , 2004, 177-178, 376-381.	2.2	37
28	CO ₂ hydrogenation on a metal hydride surface. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5518.	1.3	37
29	Exchange Bias and Domain Evolution at 10Ånm Scales. <i>Physical Review Letters</i> , 2010, 105, 197201.	2.9	36
30	Effect of Nb doping on structural, optical and photocatalytic properties of flame-made TiO ₂ nanopowder. <i>Environmental Science and Pollution Research</i> , 2012, 19, 3696-3708.	2.7	36
31	Effect of Si incorporation on the properties of niobium nitride films deposited by DC reactive magnetron sputtering. <i>Surface and Coatings Technology</i> , 2004, 188-189, 435-439.	2.2	33
32	Identification of birch pollen species using FTIR spectroscopy. <i>Aerobiologia</i> , 2018, 34, 525-538.	0.7	33
33	Microstructural comparison of material damage in GaAs caused by Berkovich and wedge nanoindentation and nanoscratching. <i>Scripta Materialia</i> , 2008, 59, 364-367.	2.6	30
34	Temperature dependence of large exchange-bias in TbFe-Co/Pt. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	30
35	Sequence of deformation and cracking behaviours of GalliumArsenide during nano-scratching. <i>Materials Chemistry and Physics</i> , 2013, 138, 38-48.	2.0	30
36	Green synthesis and antibacterial effects of aqueous colloidal solutions of silver nanoparticles using clove eugenol. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4276.	1.7	29

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37	Effects of SiO ₂ -doping on high-surface-area Ru/TiO ₂ catalysts for the selective CO methanation. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119483.	10.8	27
38	Synthesis and catalytic, antimicrobial and cytotoxicity evaluation of gold and silver nanoparticles using biodegradable, l-conjugated polyamic acid. <i>Environmental Science: Nano</i> , 2015, 2, 518-527.	2.2	26
39	Fe ₃ O ₄ @SiO ₂ @Au nanoparticles for MRI-guided chemo/NIR photothermal therapy of cancer cells. <i>RSC Advances</i> , 2020, 10, 26508-26520.	1.7	26
40	Bactericidal Properties of Rod-, Peanut-, and Star-Shaped Gold Nanoparticles Coated with Ceragenin CSA-131 against Multidrug-Resistant Bacterial Strains. <i>Pharmaceutics</i> , 2021, 13, 425.	2.0	25
41	Steering the selectivity in CO ₂ reduction on highly active Ru/TiO ₂ catalysts: Support particle size effects. <i>Journal of Catalysis</i> , 2021, 401, 160-173.	3.1	25
42	Effect of tantalum addition on microstructure and optical properties of TiN thin films. <i>Thin Solid Films</i> , 2007, 515, 6758-6764.	0.8	23
43	The role of zinc deficiency-induced changes in the phospholipid-protein balance of blood serum in animal depression model by Raman, FTIR and UV-vis spectroscopy. <i>Biomedicine and Pharmacotherapy</i> , 2017, 89, 549-558.	2.5	22
44	Design and assembly of ternary Pt/Re/SnO ₂ NPs by controlling the zeta potential of individual Pt, Re, and SnO ₂ NPs. <i>Journal of Nanoparticle Research</i> , 2018, 20, 144.	0.8	22
45	The influence of the grain boundary phase on the mechanical properties of Si ₃ N ₄ -MoSi ₂ composites. <i>Acta Materialia</i> , 2007, 55, 2875-2884.	3.8	21
46	Structural anelasticity of NiTi during two-stage martensitic transformation. <i>Journal of Alloys and Compounds</i> , 2000, 310, 312-317.	2.8	20
47	Transmission electron microscopy characterization of TiN/SiN _x multilayered coatings plastically deformed by nanoindentation. <i>Thin Solid Films</i> , 2010, 518, 4890-4897.	0.8	20
48	Platinum-gold nanoraspberries as effective photosensitizer in anticancer photothermal therapy. <i>Journal of Nanobiotechnology</i> , 2019, 17, 107.	4.2	20
49	Size effect of platinum nanoparticles in simulated anticancer photothermal therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020, 29, 101594.	1.3	20
50	From spherical to bone-shaped gold nanoparticles—Time factor in the formation of Au NPs, their optical and photothermal properties. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020, 30, 101670.	1.3	20
51	Nanoindentation deformation and cracking in sapphire. <i>Ceramics International</i> , 2019, 45, 9835-9845.	2.3	19
52	In situ scanning electron microscopy indentation studies on multilayer nitride films: Methodology and deformation mechanisms. <i>Journal of Materials Research</i> , 2009, 24, 1208-1221.	1.2	18
53	Preparation of Pt-skin PtRhNi Nanoframes Decorated with Small SnO ₂ Nanoparticles as an Efficient Catalyst for Ethanol Oxidation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22352-22363.	4.0	18
54	Oxygen diffusion in columnar TiAlSiN coatings investigated by electron microscopy. <i>Thin Solid Films</i> , 2016, 616, 437-443.	0.8	17

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55	Olfactory bulbectomy-induced changes in phospholipids and protein profiles in the hippocampus and prefrontal cortex of rats. A preliminary study using a FTIR spectroscopy. <i>Pharmacological Reports</i> , 2016, 68, 521-528.	1.5	17
56	Structural, chemical and optical properties of SnO ₂ NPs obtained by three different synthesis routes. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 107, 100-107.	1.9	17
57	Temperature-controlled synthesis of hollow, porous gold nanoparticles with wide range light absorption. <i>Journal of Materials Science</i> , 2020, 55, 5257-5267.	1.7	17
58	Phase constitution and interface structure of nano-sized Ag-Cu/AlN multilayers: Experiment and <i>ab initio</i> modeling. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	16
59	Comparing dried and liquid blood serum samples of depressed patients: An analysis by Raman and infrared spectroscopy methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 150, 80-86.	1.4	16
60	Influence of Ge addition on the morphology and properties of TiN thin films deposited by magnetron sputtering. <i>Thin Solid Films</i> , 2006, 496, 336-341.	0.8	15
61	Nanocomposite Al-Ge-N thin films and their mechanical and optical properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 16761.	6.7	15
62	Mechanical and tribological properties of polymer-derived Si/C/N sub-millimetre thick miniaturized components fabricated by direct casting. <i>Journal of the European Ceramic Society</i> , 2012, 32, 1759-1767.	2.8	15
63	Synthesis and characterization of new functionalized polymer-Fe ₃ O ₄ nanocomposite particles. <i>EXPRESS Polymer Letters</i> , 2017, 11, 2-13.	1.1	15
64	Fancy-Shaped Gold-Platinum Nanocauliflowers for Improved Proton Irradiation Effect on Colon Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9610.	1.8	15
65	Passing the limit of electrodeposition: Gas template™ H ₂ nanobubbles for growing highly crystalline nanoporous ZnO. <i>Nano Energy</i> , 2012, 1, 742-750.	8.2	14
66	Ternary Pt/Re/SnO ₂ /C catalyst for EOR: Electrocatalytic activity and durability enhancement. <i>Nano Research</i> , 2020, 13, 832-842.	5.8	14
67	FePt films on self-assembled SiO ₂ particle arrays. <i>Journal of Applied Physics</i> , 2008, 103, 053903.	1.1	13
68	Qualitative and quantitative changes in phospholipids and proteins investigated by spectroscopic techniques in olfactory bulbectomy animal depression model. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 148, 24-31.	1.4	13
69	Rod-shaped gold nanoparticles exert potent candidacidal activity and decrease the adhesion of fungal cells. <i>Nanomedicine</i> , 2020, 15, 2733-2752.	1.7	13
70	Application of iron-based magnetic nanoparticles stabilized with triethanolammonium oleate for theranostics. <i>Journal of Materials Science</i> , 2022, 57, 4716-4737.	1.7	13
71	Differential of cholangiocarcinoma disease using Raman spectroscopy combined with multivariate analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 272, 121006.	2.0	13
72	Correlation of electrolyte-derived inclusions to crystallization in the early stage of anodic oxide film growth on titanium. <i>Thin Solid Films</i> , 2012, 520, 1804-1808.	0.8	12

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73	Control of Arms of Au Stars Size and its Dependent Cytotoxicity and Photosensitizer Effects in Photothermal Anticancer Therapy. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5011.	1.8	12
74	Conversion of bimetallic PtNi ₃ nanopolyhedra to ternary PtNiSn nanoframes by galvanic replacement reaction. <i>Nanoscale</i> , 2019, 11, 5355-5364.	2.8	12
75	The optimization of methods of synthesis of nickel-silver core-shell nanoparticles for conductive materials. <i>Nanotechnology</i> , 2019, 30, 015601.	1.3	12
76	Qualitative and quantitative changes in phospholipids and proteins investigated by spectroscopic techniques in animal depression model. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 176, 30-37.	2.0	11
77	Synthesis method-dependent photothermal effects of colloidal solutions of platinum nanoparticles used in photothermal anticancer therapy. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5401.	1.7	11
78	Exploiting interactions between structure size and indentation size effects to determine the characteristic dimension of nano-structured materials by indentation. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 265301.	1.3	10
79	Distributed Bragg reflectors obtained by combining Se and Te compounds: Influence on the luminescence from CdTe quantum dots. <i>Journal of Applied Physics</i> , 2016, 119, 183105.	1.1	9
80	Ternary Pt/Re/SnO ₂ nanoparticles for ethanol oxidation reaction: Understanding the correlation between the synthesis route and the obtained material. <i>Applied Catalysis A: General</i> , 2019, 570, 319-328.	2.2	8
81	Gold nanodahlia: potential nanophotosensitizer in photothermal anticancer therapy. <i>Journal of Materials Science</i> , 2020, 55, 2530-2543.	1.7	8
82	Influence of intergranular phases on edge integrity of Si ₃ N ₄ /SiC wood cutting tools. <i>Journal of the European Ceramic Society</i> , 2011, 31, 2711-2719.	2.8	7
83	AlN/Si ₃ N ₄ multilayers as an interface model system for Al _{1-x} Si _x N/Si ₃ N ₄ nanocomposite thin films. <i>Surface and Coatings Technology</i> , 2015, 261, 418-425.	2.2	7
84	Design and Control of Mode Interaction in Coupled ZnTe Optical Microcavities. <i>Crystal Growth and Design</i> , 2017, 17, 3716-3723.	1.4	7
85	Gold Nanoparticles as Prospective Support for Cisplatin in Glioblastoma Nano-Chemo-Radiotherapy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9082.	1.8	7
86	Gold-Decorated Platinum and Palladium Nanoparticles as Modern Nanocomplexes to Improve the Effectiveness of Simulated Anticancer Proton Therapy. <i>Pharmaceutics</i> , 2021, 13, 1726.	2.0	7
87	Controlling the selectivity of high-surface-area Ru/TiO ₂ catalysts in CO ₂ reduction - modifying the reaction properties by Si doping of the support. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121748.	10.8	7
88	Adaptive composites with embedded NiTiCu wires. , 2001, 4333, 377.		6
89	Differences in Electrophysical and Gas Sensing Properties of Flame Spray Synthesized Fe ₂ O ₃ and Fe ₂ O ₃ and Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 102 Td 6401-6411.	0.9	6
90	Effect of electron-hole separation on optical properties of individual Cd(Se,Te) quantum dots. <i>Physical Review B</i> , 2016, 93, .	1.1	6

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91	<title>Shape memory alloy wires turn composites into smart structures: II. Manufacturing and properties</title>. , 2002, , .		5
92	Microstructure and reducibility of Ceâ€“Erâ€“O mixed oxides supported on Î³-Al ₂ O ₃ â€“ Effect of preparation method. Applied Surface Science, 2015, 351, 1094-1104.	3.1	5
93	Phonons in austenite and martensite NiTi crystals. European Physical Journal Special Topics, 2003, 112, 635-638.	0.2	5
94	Real space crystallography of a complex metallic alloy: high-angle annular dark-field scanning transmission electron microscopy of α -Al ₄ (Cr,Fe). Journal of Applied Crystallography, 2014, 47, 1026-1031.	1.9	5
95	Peanut-Shaped Gold Nanoparticles with Shells of Ceragenin CSA-131 Display the Ability to Inhibit Ovarian Cancer Growth In Vitro and in a Tumor Xenograft Model. Cancers, 2021, 13, 5424.	1.7	5
96	Ceragenin-Coated Non-Spherical Gold Nanoparticles as Novel Candidacidal Agents. Pharmaceutics, 2021, 13, 1940.	2.0	5
97	The role of the addition of Cu in alloyed and multilayered Fe-based nanowires. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 281, 115732.	1.7	5
98	Structural investigation of SnO ₂ catalytic nanoparticles doped with F and Sb. Surface and Interface Analysis, 2014, 46, 1090-1093.	0.8	4
99	Mechanical behavior of intragranular, nano-porous electrodeposited zinc oxide. Thin Solid Films, 2015, 578, 174-179.	0.8	4
100	3D Î€-Conjugated Poly(amic) Acid Polymer as Support Matrices for Ethanol Electro-Oxidation on Palladium and Platinum Catalysts. Electrocatalysis, 2016, 7, 317-325.	1.5	4
101	Ultraslow Spin Relaxation Dynamics in Colloidal Copper-Doped CdSe Quantum Dots. Journal of Physical Chemistry C, 2020, 124, 1042-1052.	1.5	4
102	Similarities in the General Chemical Composition of Colon Cancer Cells and Their Microvesicles Investigated by Spectroscopic Methods-Potential Clinical Relevance. International Journal of Molecular Sciences, 2020, 21, 1826.	1.8	4
103	Targeting bacteria causing otitis media using nanosystems containing nonspherical gold nanoparticles and ceragenins. Nanomedicine, 2021, 16, 2657-2678.	1.7	4
104	N-Acetyl-Cysteine Increases Activity of Peanut-Shaped Gold Nanoparticles Against Biofilms Formed by Clinical Strains of Pseudomonas aeruginosa Isolated from Sputum of Cystic Fibrosis Patients. Infection and Drug Resistance, 2022, Volume 15, 851-871.	1.1	4
105	Fracture mechanisms of GaAs under nanoscratching. Materials Research Society Symposia Proceedings, 2004, 841, R9.15.1.	0.1	3
106	Vibrational response of adaptive composites. European Physical Journal Special Topics, 2001, 11, Pr8-129-Pr8-134.	0.2	3
107	Quantitative imaging of diatoms by PeakForce atomic force microscopy. Surface and Interface Analysis, 2014, 46, 851-855.	0.8	2
108	Engineering the hole confinement for CdTe-based quantum dot molecules. Journal of Applied Physics, 2015, 117, .	1.1	2

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109	Autologous tumor-derived microvesicles influence gene expression profiles and enhance protumorigenic chemotactic potential, signal transduction and cellular respiration in gastric cancer cells. <i>International Journal of Oncology</i> , 2020, 56, 359-367.	1.4	2
110	Structural and chemical properties of sputter-deposited TiGeN thin films. <i>Surface and Coatings Technology</i> , 2005, 200, 1483-1488.	2.2	0
111	Relaxation mechanisms in martensitic NiTi(Cu): Internal friction measurements correlated to in situ TEM straining. <i>Materials Science and Technology</i> , 2008, 24, 913-919.	0.8	0
112	Spectroscopic and positron lifetime measurements of hydrogenated single walled carbon nanohorns. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2461-2467.	0.8	0
113	Aktivierete Modifikation der TrÄger-Metall-Wechselwirkungen als SchlÄssel fÄr hochaktive Ru/Al ₂ O ₃ -Katalysatoren fÄr die CO x -Methanisierung. <i>Angewandte Chemie</i> , 2020, 132, 22951-22959.	1.6	0