Katarzyna Siuzdak

List of Publications by Year
in descending order

61	1,253	361296 20	414303 32
papers	citations	h-index	g-index

66	66	66	1426
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanostructure of the laser-modified transition metal nanocomposites for water splitting. Nanotechnology, 2022, , .	1.3	1
2	The Anodization of Thin Titania Layers as a Facile Process towards Semitransparent and Ordered Electrode Material. Nanomaterials, 2022, 12, 1131.	1.9	5
3	A facile method for Tauc exponent and corresponding electronic transitions determination in semiconductors directly from UVâ€“Vis spectroscopy data. Optical Materials, 2022, 127, 112205.	1.7	44
4	Electrocatalytic oxidation of methanol, ethylene glycol and glycerine in alkaline media on TiO2 nanotubes decorated with AuCu nanoparticles for an application in fuel cells. Journal of Materials Science, 2022, 57, 13345-13361.	1.7	3
5	Spectacular Oxygen Evolution Reaction Enhancement through Laser Processing of the Nickelâ€Decorated Titania Nanotubes. Advanced Materials Interfaces, 2021, 8, .	1.9	8
6	Laser-assisted approach for improved performance of Au-Ti based glucose sensing electrodes. Applied Surface Science, 2021, 543, 148788.	3.1	10
7	Review on robust laser light interaction with titania â€“ Patterning, crystallisation and ablation processes. Progress in Solid State Chemistry, 2021, 62, 100297.	3.9	8
8	Free-standing TiO₂ nanotubes decorated with spherical nickel nanoparticles as a cost-efficient electrocatalyst for oxygen evolution reaction. RSC Advances, 2021, 11, 219-228.	1.7	8
9	Electrochemical glucose sensor based on the glucose oxidase entrapped in chitosan immobilized onto laser-processed Au-Ti electrode. Sensors and Actuators B: Chemical, 2021, 330, 129409.	4.0	54
10	Exploring multi-step glucose oxidation kinetics at GOx-functionalized nanotextured gold surfaces with differential impedimetric technique. Measurement: Journal of the International Measurement Confederation, 2021, 174, 109015.	2.5	10
11	Enzyme Immobilization on Gold Nanoparticles for Electrochemical Glucose Biosensors. Nanomaterials, 2021, 11, 1156.	1.9	24
12	The interaction of the pulsed laser irradiation with titania nanotubes - Theoretical studies on the thermal effect. International Journal of Thermal Sciences, 2021, 162, 106800.	2.6	5
13	Simple synthesis route for fabrication of protective photoâ€crosslinked poly(zwitterionic) membranes for application in nonâ€enzymatic glucose sensing. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, , .	1.6	2
14	Rapid development of the photoresponse and oxygen evolution of TiO2 nanotubes sputtered with Cr thin films realized via laser annealing. Journal of Alloys and Compounds, 2021, 877, 160316.	2.8	6
15	Influence of Annealing Atmospheres on Photoelectrochemical Activity of TiO₂ Nanotubes Modified with AuCu Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 52967-52977.	4.0	9
16	A Flexible Nafion Coated Enzymeâ€free Glucose Sensor Based on Auâ€dimpled Ti Structures. Electroanalysis, 2020, 32, 323-332.	1.5	21
17	Scalable Route toward Superior Photoresponse of UV-Laser-Treated TiO2 Nanotubes. ACS Applied Materials & Interfaces, 2020, 12, 3225-3235.	4.0	27
18	Laser-assisted modification of titanium dioxide nanotubes in a tilted mode as surface modification and patterning strategy. Applied Surface Science, 2020, 508, 145143.	3.1	24

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19	The pulsed laser ablation synthesis of colloidal iron oxide nanoparticles for the enhancement of TiO2 nanotubes photo-activity. Applied Surface Science, 2020, 530, 147097.	3.1	20
20	Formation of the hollow nanopillar arrays through the laser-induced transformation of TiO2 nanotubes. Scientific Reports, 2020, 10, 20235.	1.6	6
21	Laser induced formation of copper species over TiO2 nanotubes towards enhanced water splitting performance. International Journal of Hydrogen Energy, 2020, 45, 19192-19205.	3.8	9
22	Insightful Analysis of Phenomena Arising at the Metal|Polymer Interphase of Au-Ti Based Non-Enzymatic Glucose Sensitive Electrodes Covered by Nafion. Coatings, 2020, 10, 810.	1.2	9
23	Laser-Assisted Synthesis and Oxygen Generation of Nickel Nanoparticles. Materials, 2020, 13, 4068.	1.3	4
24	The Effect of Laser Re-Solidification on Microstructure and Photo-Electrochemical Properties of Fe-Decorated TiO2 Nanotubes. Materials, 2020, 13, 4019.	1.3	2
25	Anodic titania nanotubes decorated with gold nanoparticles produced by laser-induced dewetting of thin metallic films. Scientific Reports, 2020, 10, 20506.	1.6	12
26	Novel approach to interference analysis of glucose sensing materials coated with Nafion. Bioelectrochemistry, 2020, 135, 107575.	2.4	14
27	Thermally tuneable optical and electrochemical properties of Au-Cu nanomosaic formed over the host titanium dimples. Chemical Engineering Journal, 2020, 399, 125673.	6.6	10
28	Modified Manganese Phosphate Conversion Coating on Low-Carbon Steel. Materials, 2020, 13, 1416.	1.3	6
29	The In-Depth Studies of Pulsed UV Laser-Modified TiO2 Nanotubes: The Influence of Geometry, Crystallinity, and Processing Parameters. Nanomaterials, 2020, 10, 430.	1.9	12
30	The geometry of free-standing titania nanotubes as a critical factor controlling their optical and photoelectrochemical performance. Surface and Coatings Technology, 2020, 389, 125628.	2.2	22
31	Photoelectrochemically Active Nâ€Adsorbing Ultrathin TiO₂ Layers for Waterâ€Splitting Applications Prepared by Pyrolysis of Oleic Acid on Iron Oxide Nanoparticle Surfaces under Nitrogen Environment. Advanced Materials Interfaces, 2019, 6, 1801286.	1.9	16
32	The optimization of enzyme immobilization at Au-Ti nanotextured platform and its impact onto the response towards glucose in neutral media. Materials Research Express, 2019, 6, 1150e3.	0.8	13
33	Non-enzymatic flexible glucose sensing platform based on nanostructured TiO2 â€“ Au composite. Journal of Electroanalytical Chemistry, 2019, 837, 230-239.	1.9	45
34	The influence of the Cu2O deposition method on the structure, morphology and photoresponse of the ordered TiO2NTs/Cu2O heterojunction. Materials Research Express, 2019, 6, 1250b6.	0.8	4
35	Detection of the Plant Pathogen Pseudomonas Syringae pv. Lachrymans on Antibody-Modified Gold Electrodes by Electrochemical Impedance Spectroscopy. Sensors, 2019, 19, 5411.	2.1	27
36	Study on Combined Optical and Electrochemical Analysis Using Indiumâ€tinâ€oxideâ€coated Optical Fiber Sensor. Electroanalysis, 2019, 31, 398-404.	1.5	18

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37	Nanoâ€engineered Diamondâ€based Materials for Supercapacitor Electrodes: A Review. Energy Technology, 2018, 6, 223-237.	1.8	36
38	Manganese Phosphatizing Coatings: The Effects of Preparation Conditions on Surface Properties. Materials, 2018, 11, 2585.	1.3	29
39	The influence of polarization of titania nanotubes modified by a hybrid system made of a conducting polymer PEDOT and Prussian Blue redox network on the Raman spectroscopy response and photoelectrochemical properties. Electrochimica Acta, 2018, 279, 34-43.	2.6	1
40	Ordered titania nanotubes layer selectively annealed by laser beam for high contrast electrochromic switching. Thin Solid Films, 2018, 659, 48-56.	0.8	15
41	Ordered titanium templates functionalized by gold films for biosensing applications â€“ Towards non-enzymatic glucose detection. Talanta, 2017, 166, 207-214.	2.9	20
42	Boron-Enhanced Growth of Micron-Scale Carbon-Based Nanowalls: A Route toward High Rates of Electrochemical Biosensing. ACS Applied Materials & Interfaces, 2017, 9, 12982-12992.	4.0	75
43	Properties of Thermally Dewetted Thin Au Films on ITO-Coated Glass for Biosensing Applications. Plasmonics, 2017, 12, 1939-1946.	1.8	4
44	Nanostructuring of thin Au films deposited on ordered Ti templates for applications in SERS. Applied Surface Science, 2017, 418, 472-480.	3.1	17
45	Fabrication and Significant Photoelectrochemical Activity of Titania Nanotubes Modified with Thin Indium Tin Oxide Film. Acta Metallurgica Sinica (English Letters), 2017, 30, 1210-1220.	1.5	7
46	Sprayâ€deposited carbonâ€nanotube counterâ€electrodes for dyeâ€sensitized solar cells. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1157-1164.	0.8	10
47	Properties of ordered titanium templates covered with Au thin films for SERS applications. Applied Surface Science, 2016, 388, 716-722.	3.1	16
48	Synthesis and photoelectrochemical behaviour of hydrogenated titania nanotubes modified with conducting polymer infiltrated by redox active network. Electrochimica Acta, 2016, 222, 1281-1292.	2.6	10
49	Non-metal doped TiO 2 nanotube arrays for high efficiency photocatalytic decomposition of organic species in water. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 84, 141-145.	1.3	46
50	Enhanced photocatalytic, electrochemical and photoelectrochemical properties of TiO2 nanotubes arrays modified with Cu, AgCu and Bi nanoparticles obtained via radiolytic reduction. Applied Surface Science, 2016, 387, 89-102.	3.1	106
51	Optimization of boron-doping process of titania nanotubes via electrochemical method toward enhanced photoactivity. Journal of Solid State Electrochemistry, 2016, 20, 1765-1774.	1.2	27
52	Highly stable organicâ€“inorganic junction composed of hydrogenated titania nanotubes infiltrated by a conducting polymer. RSC Advances, 2016, 6, 33101-33110.	1.7	36
53	Semi-transparent ordered TiO2 nanostructures prepared by anodization of titanium thin films deposited onto the FTO substrate. Applied Surface Science, 2016, 381, 36-41.	3.1	21
54	Enhanced photoelectrochemical and photocatalytic performance of iodine-doped titania nanotube arrays. RSC Advances, 2015, 5, 50379-50391.	1.7	68

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55	Thin layer of ordered boron-doped TiO2 nanotubes fabricated in a novel type of electrolyte and characterized by remarkably improved photoactivity. Applied Surface Science, 2015, 357, 942-950.	3.1	44
56	Novel nitrogen precursors for electrochemically driven doping of titania nanotubes exhibiting enhanced photoactivity. New Journal of Chemistry, 2015, 39, 2741-2751.	1.4	63
57	Facile preparation of extremely photoactive boron-doped TiO 2 nanotubes arrays. Electrochemistry Communications, 2015, 60, 212-215.	2.3	45
58	Functionalization of indium-tin-oxide electrodes by laser-nanostructured gold thin films for biosensing applications. Applied Surface Science, 2015, 357, 1684-1691.	3.1	14
59	Fabrication and properties of electrode material composed of ordered titania nanotubes and pEDOT:PSS. Solid State Ionics, 2015, 271, 56-62.	1.3	7
60	Properties of plasmonic arrays produced by pulsed-laser nanostructuring of thin Au films. Beilstein Journal of Nanotechnology, 2014, 5, 2102-2112.	1.5	11
61	HETERO-JUNCTION COMPOSED OF POLY(3, 4-ETHYLENEDIOXYTHIOPHENE) WITH POLY(STYRENESULPHONATE) AND IODINE DOPED TITANIUM DIOXIDE. Functional Materials Letters, 2011, 04, 199-203.	0.7	2