

Katarzyna Siuzdak

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,253
citations

361296

20
h-index

414303

32
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66
all docs

66
docs citations

66
times ranked

1426
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced photocatalytic, electrochemical and photoelectrochemical properties of TiO ₂ nanotubes arrays modified with Cu, AgCu and Bi nanoparticles obtained via radiolytic reduction. <i>Applied Surface Science</i> , 2016, 387, 89-102.	3.1	106
2	Boron-Enhanced Growth of Micron-Scale Carbon-Based Nanowalls: A Route toward High Rates of Electrochemical Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12982-12992.	4.0	75
3	Enhanced photoelectrochemical and photocatalytic performance of iodine-doped titania nanotube arrays. <i>RSC Advances</i> , 2015, 5, 50379-50391.	1.7	68
4	Novel nitrogen precursors for electrochemically driven doping of titania nanotubes exhibiting enhanced photoactivity. <i>New Journal of Chemistry</i> , 2015, 39, 2741-2751.	1.4	63
5	Electrochemical glucose sensor based on the glucose oxidase entrapped in chitosan immobilized onto laser-processed Au-Ti electrode. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129409.	4.0	54
6	Non-metal doped TiO ₂ nanotube arrays for high efficiency photocatalytic decomposition of organic species in water. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 84, 141-145.	1.3	46
7	Facile preparation of extremely photoactive boron-doped TiO ₂ nanotubes arrays. <i>Electrochemistry Communications</i> , 2015, 60, 212-215.	2.3	45
8	Non-enzymatic flexible glucose sensing platform based on nanostructured TiO ₂ @ Au composite. <i>Journal of Electroanalytical Chemistry</i> , 2019, 837, 230-239.	1.9	45
9	Thin layer of ordered boron-doped TiO ₂ nanotubes fabricated in a novel type of electrolyte and characterized by remarkably improved photoactivity. <i>Applied Surface Science</i> , 2015, 357, 942-950.	3.1	44
10	A facile method for Tauc exponent and corresponding electronic transitions determination in semiconductors directly from UV-Vis spectroscopy data. <i>Optical Materials</i> , 2022, 127, 112205.	1.7	44
11	Highly stable organic-inorganic junction composed of hydrogenated titania nanotubes infiltrated by a conducting polymer. <i>RSC Advances</i> , 2016, 6, 33101-33110.	1.7	36
12	Nano-engineered Diamond-based Materials for Supercapacitor Electrodes: A Review. <i>Energy Technology</i> , 2018, 6, 223-237.	1.8	36
13	Manganese Phosphatizing Coatings: The Effects of Preparation Conditions on Surface Properties. <i>Materials</i> , 2018, 11, 2585.	1.3	29
14	Optimization of boron-doping process of titania nanotubes via electrochemical method toward enhanced photoactivity. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1765-1774.	1.2	27
15	Detection of the Plant Pathogen <i>Pseudomonas Syringae</i> pv. <i>Lachrymans</i> on Antibody-Modified Gold Electrodes by Electrochemical Impedance Spectroscopy. <i>Sensors</i> , 2019, 19, 5411.	2.1	27
16	Scalable Route toward Superior Photoresponse of UV-Laser-Treated TiO ₂ Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3225-3235.	4.0	27
17	Laser-assisted modification of titanium dioxide nanotubes in a tilted mode as surface modification and patterning strategy. <i>Applied Surface Science</i> , 2020, 508, 145143.	3.1	24
18	Enzyme Immobilization on Gold Nanoparticles for Electrochemical Glucose Biosensors. <i>Nanomaterials</i> , 2021, 11, 1156.	1.9	24

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19	The geometry of free-standing titania nanotubes as a critical factor controlling their optical and photoelectrochemical performance. <i>Surface and Coatings Technology</i> , 2020, 389, 125628.	2.2	22
20	Semi-transparent ordered TiO ₂ nanostructures prepared by anodization of titanium thin films deposited onto the FTO substrate. <i>Applied Surface Science</i> , 2016, 381, 36-41.	3.1	21
21	A Flexible Nafion Coated Enzyme-free Glucose Sensor Based on Au-dimpled Ti Structures. <i>Electroanalysis</i> , 2020, 32, 323-332.	1.5	21
22	Ordered titanium templates functionalized by gold films for biosensing applications – Towards non-enzymatic glucose detection. <i>Talanta</i> , 2017, 166, 207-214.	2.9	20
23	The pulsed laser ablation synthesis of colloidal iron oxide nanoparticles for the enhancement of TiO ₂ nanotubes photo-activity. <i>Applied Surface Science</i> , 2020, 530, 147097.	3.1	20
24	Study on Combined Optical and Electrochemical Analysis Using Indium-tin-oxide-coated Optical Fiber Sensor. <i>Electroanalysis</i> , 2019, 31, 398-404.	1.5	18
25	Nanostructuring of thin Au films deposited on ordered Ti templates for applications in SERS. <i>Applied Surface Science</i> , 2017, 418, 472-480.	3.1	17
26	Properties of ordered titanium templates covered with Au thin films for SERS applications. <i>Applied Surface Science</i> , 2016, 388, 716-722.	3.1	16
27	Photoelectrochemically Active N ₂ -Adsorbing Ultrathin TiO ₂ Layers for Water-Splitting Applications Prepared by Pyrolysis of Oleic Acid on Iron Oxide Nanoparticle Surfaces under Nitrogen Environment. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801286.	1.9	16
28	Ordered titania nanotubes layer selectively annealed by laser beam for high contrast electrochromic switching. <i>Thin Solid Films</i> , 2018, 659, 48-56.	0.8	15
29	Functionalization of indium-tin-oxide electrodes by laser-nanostructured gold thin films for biosensing applications. <i>Applied Surface Science</i> , 2015, 357, 1684-1691.	3.1	14
30	Novel approach to interference analysis of glucose sensing materials coated with Nafion. <i>Bioelectrochemistry</i> , 2020, 135, 107575.	2.4	14
31	The optimization of enzyme immobilization at Au-Ti nanotextured platform and its impact onto the response towards glucose in neutral media. <i>Materials Research Express</i> , 2019, 6, 1150e3.	0.8	13
32	Anodic titania nanotubes decorated with gold nanoparticles produced by laser-induced dewetting of thin metallic films. <i>Scientific Reports</i> , 2020, 10, 20506.	1.6	12
33	The In-Depth Studies of Pulsed UV Laser-Modified TiO ₂ Nanotubes: The Influence of Geometry, Crystallinity, and Processing Parameters. <i>Nanomaterials</i> , 2020, 10, 430.	1.9	12
34	Properties of plasmonic arrays produced by pulsed-laser nanostructuring of thin Au films. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 2102-2112.	1.5	11
35	Spray-deposited carbon-nanotube counter-electrodes for dye-sensitized solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1157-1164.	0.8	10
36	Synthesis and photoelectrochemical behaviour of hydrogenated titania nanotubes modified with conducting polymer infiltrated by redox active network. <i>Electrochimica Acta</i> , 2016, 222, 1281-1292.	2.6	10

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37	Thermally tuneable optical and electrochemical properties of Au-Cu nanomosaic formed over the host titanium dimples. <i>Chemical Engineering Journal</i> , 2020, 399, 125673.	6.6	10
38	Laser-assisted approach for improved performance of Au-Ti based glucose sensing electrodes. <i>Applied Surface Science</i> , 2021, 543, 148788.	3.1	10
39	Exploring multi-step glucose oxidation kinetics at GOx-functionalized nanotextured gold surfaces with differential impedimetric technique. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 174, 109015.	2.5	10
40	Laser induced formation of copper species over TiO ₂ nanotubes towards enhanced water splitting performance. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19192-19205.	3.8	9
41	Insightful Analysis of Phenomena Arising at the Metal Polymer Interphase of Au-Ti Based Non-Enzymatic Glucose Sensitive Electrodes Covered by Nafion. <i>Coatings</i> , 2020, 10, 810.	1.2	9
42	Influence of Annealing Atmospheres on Photoelectrochemical Activity of TiO ₂ Nanotubes Modified with AuCu Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52967-52977.	4.0	9
43	Spectacular Oxygen Evolution Reaction Enhancement through Laser Processing of the Nickel-Decorated Titania Nanotubes. <i>Advanced Materials Interfaces</i> , 2021, 8, .	1.9	8
44	Review on robust laser light interaction with titania "Patterning, crystallisation and ablation processes. <i>Progress in Solid State Chemistry</i> , 2021, 62, 100297.	3.9	8
45	Free-standing TiO ₂ nanotubes decorated with spherical nickel nanoparticles as a cost-efficient electrocatalyst for oxygen evolution reaction. <i>RSC Advances</i> , 2021, 11, 219-228.	1.7	8
46	Fabrication and properties of electrode material composed of ordered titania nanotubes and pEDOT:PSS. <i>Solid State Ionics</i> , 2015, 271, 56-62.	1.3	7
47	Fabrication and Significant Photoelectrochemical Activity of Titania Nanotubes Modified with Thin Indium Tin Oxide Film. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017, 30, 1210-1220.	1.5	7
48	Formation of the hollow nanopillar arrays through the laser-induced transformation of TiO ₂ nanotubes. <i>Scientific Reports</i> , 2020, 10, 20235.	1.6	6
49	Modified Manganese Phosphate Conversion Coating on Low-Carbon Steel. <i>Materials</i> , 2020, 13, 1416.	1.3	6
50	Rapid development of the photoresponse and oxygen evolution of TiO ₂ nanotubes sputtered with Cr thin films realized via laser annealing. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160316.	2.8	6
51	The interaction of the pulsed laser irradiation with titania nanotubes - Theoretical studies on the thermal effect. <i>International Journal of Thermal Sciences</i> , 2021, 162, 106800.	2.6	5
52	The Anodization of Thin Titania Layers as a Facile Process towards Semitransparent and Ordered Electrode Material. <i>Nanomaterials</i> , 2022, 12, 1131.	1.9	5
53	Properties of Thermally Dewetted Thin Au Films on ITO-Coated Glass for Biosensing Applications. <i>Plasmonics</i> , 2017, 12, 1939-1946.	1.8	4
54	The influence of the Cu ₂ O deposition method on the structure, morphology and photoresponse of the ordered TiO ₂ NTs/Cu ₂ O heterojunction. <i>Materials Research Express</i> , 2019, 6, 1250b6.	0.8	4

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55	Laser-Assisted Synthesis and Oxygen Generation of Nickel Nanoparticles. <i>Materials</i> , 2020, 13, 4068.	1.3	4
56	Electrocatalytic oxidation of methanol, ethylene glycol and glycerine in alkaline media on TiO ₂ nanotubes decorated with AuCu nanoparticles for an application in fuel cells. <i>Journal of Materials Science</i> , 2022, 57, 13345-13361.	1.7	3
57	HETERO-JUNCTION COMPOSED OF POLY(3, 4-ETHYLENEDIOXYTHIOPHENE) WITH POLY(STYRENESULPHONATE) AND IODINE DOPED TITANIUM DIOXIDE. <i>Functional Materials Letters</i> , 2011, 04, 199-203.	0.7	2
58	The Effect of Laser Re-Solidification on Microstructure and Photo-Electrochemical Properties of Fe-Decorated TiO ₂ Nanotubes. <i>Materials</i> , 2020, 13, 4019.	1.3	2
59	Simple synthesis route for fabrication of protective photo-crosslinked poly(zwitterionic) membranes for application in non-enzymatic glucose sensing. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, , .	1.6	2
60	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. <i>Electrochimica Acta</i> , 2018, 279, 34-43.	2.6	1
61	Nanostructure of the laser-modified transition metal nanocomposites for water splitting. <i>Nanotechnology</i> , 2022, , .	1.3	1