

# Marta Radecka

## List of Publications by Year in descending order

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56  
papers

1,936  
citations

304368

22  
h-index

253896

43  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2740  
citing authors

#	ARTICLE	IF	CITATIONS
1	Importance of the band gap energy and flat band potential for application of modified TiO <sub>2</sub> photoanodes in water photolysis. <i>Journal of Power Sources</i> , 2008, 181, 46-55.	4.0	337
2	SnO <sub>2</sub> -TiO <sub>2</sub> solid solutions for gas sensors. <i>Sensors and Actuators B: Chemical</i> , 1998, 47, 194-204.	4.0	151
3	Effect of Nb, Cr, Sn additions on gas sensing properties of TiO <sub>2</sub> thin films. <i>Thin Solid Films</i> , 1997, 310, 161-166.	0.8	135
4	SEMICONDUCTING PROPERTIES OF UNDOPED TiO <sub>2</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 1997, 58, 927-937.	1.9	112
5	Shaped Fe <sub>2</sub> O <sub>3</sub> nanoparticles – Synthesis and enhanced photocatalytic degradation towards RhB. <i>Applied Surface Science</i> , 2019, 476, 342-352.	3.1	93
6	Structural and electrical properties of magnetron sputtered Ti(ON) thin films: The case of TiN doped in situ with oxygen. <i>Journal of Power Sources</i> , 2009, 194, 93-103.	4.0	88
7	TiO <sub>2</sub> -SnO <sub>2</sub> nanomaterials for gas sensing and photocatalysis. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2285-2290.	2.8	75
8	TiO <sub>2</sub> /SnO <sub>2</sub> nanotubes for hydrogen generation by photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 841-851.	3.8	65
9	Effect of oxygen nonstoichiometry on photo-electrochemical properties of TiO <sub>2-x</sub> . <i>Journal of Power Sources</i> , 2007, 173, 816-821.	4.0	60
10	TiO <sub>2</sub> nanostructures for photoelectrochemical cells (PECs). <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4936-4944.	3.8	54
11	Structural properties of TiO <sub>2</sub> nanomaterials. <i>Journal of Molecular Structure</i> , 2018, 1157, 327-336.	1.8	54
12	Influence of Cr on structural and optical properties of TiO <sub>2</sub> :Cr nanopowders prepared by flame spray synthesis. <i>Journal of Power Sources</i> , 2009, 194, 104-111.	4.0	49
13	Structural, optical and electrical properties of nanocrystalline TiO <sub>2</sub> , SnO <sub>2</sub> and their composites obtained by the sol-gel method. <i>Journal of the European Ceramic Society</i> , 2016, 36, 2981-2989.	2.8	44
14	Structural evolution of SnO <sub>2</sub> -TiO <sub>2</sub> nanocrystalline films for gas sensors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 69-70, 386-391.	1.7	42
15	A SrTiO <sub>3</sub> -TiO <sub>2</sub> eutectic composite as a stable photoanode material for photoelectrochemical hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 538-546.	10.8	42
16	Biopolymeric hydrogels – nanostructured TiO <sub>2</sub> hybrid materials as potential injectable scaffolds for bone regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 607-614.	2.5	41
17	Microstructure and optical properties of photoactive TiO <sub>2</sub> :N thin films. <i>Vacuum</i> , 2008, 82, 936-941.	1.6	39
18	CdS for TiO <sub>2</sub> -based heterostructures as photoactive anodes in the photoelectrochemical cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7548-7562.	3.8	33

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19	Chemical composition, crystallographic structure and impedance spectroscopy of titanium oxynitride TiN <sub>x</sub> O <sub>y</sub> thin films. Solid State Ionics, 2011, 192, 693-698.	1.3	29
20	TiO <sub>2</sub> flower-like nanostructures decorated with CdS/PbS nanoparticles. Materials Research Bulletin, 2014, 60, 28-37.	2.7	27
21	Nanocrystalline TiO <sub>2</sub> /SnO <sub>2</sub> heterostructures for gas sensing. Beilstein Journal of Nanotechnology, 2017, 8, 108-122.	1.5	27
22	Sn and Cu oxide nanoparticles deposited on TiO <sub>2</sub> nanoflower 3D substrates by Inert Gas Condensation technique. Applied Surface Science, 2016, 380, 193-202.	3.1	25
23	Surface-Controlled Photocatalysis and Chemical Sensing of TiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , and Cu <sub>2</sub> O Nanocrystals. Crystals, 2019, 9, 163.	1.0	23
24	Charge and mass transport in ceramic TiO <sub>2</sub> . Journal of the European Ceramic Society, 2002, 22, 2001-2012.	2.8	22
25	Effect of High-Temperature Treatment on n-p Transition in Titania. Journal of the American Ceramic Society, 2002, 85, 346-354.	1.9	20
26	Nitrogen-doped titanium dioxide Characterization of structural and optical properties. Materials Research Bulletin, 2009, 44, 1547-1552.	2.7	19
27	Mechanical and Tribological Properties of HVOF-Sprayed (Cr <sub>3</sub> C <sub>2</sub> -NiCr+Ni) Composite Coating on Ductile Cast Iron. Journal of Materials Engineering and Performance, 2016, 25, 3185-3193.	1.2	19
28	Photoelectrochemical properties of Nb-doped titanium dioxide. Physica B: Condensed Matter, 2007, 399, 55-59.	1.3	18
29	Antibacterial composite hybrid coatings of veterinary medical implants. Materials Science and Engineering C, 2020, 112, 110968.	3.8	16
30	Photoactive TiO <sub>2</sub> /MoS <sub>2</sub> electrode with prolonged stability. International Journal of Hydrogen Energy, 2018, 43, 6824-6837.	3.8	15
31	Functionalized structures based on shape-controlled TiO <sub>2</sub> . Applied Surface Science, 2019, 473, 603-613.	3.1	15
32	Improved photon management in a photoelectrochemical cell with Nd-modified TiO <sub>2</sub> thin film photoanode. International Journal of Hydrogen Energy, 2021, 46, 12082-12094.	3.8	13
33	When eutectic composites meet photoelectrochemistry Highly stable and efficient UV-visible hybrid photoanodes. Journal of Catalysis, 2017, 352, 93-101.	3.1	12
34	Thin Films of TiO <sub>2</sub> /N for Photo-Electrochemical Applications. Journal of Nanoscience and Nanotechnology, 2012, 12, 4703-4709.	0.9	11
35	Nonenzymatic Glucose Sensors Based on Copper Sulfides: Effect of Binder-Particles Interactions in Drop-Casted Suspensions on Electrodes Electrochemical Performance. Sensors, 2021, 21, 802.	2.1	11
36	Study of N-doped TiO <sub>2</sub> thin films for photoelectrochemical hydrogen generation from water. Open Chemistry, 2015, 13, .	1.0	10

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37	Optically Active TiO <sub>2</sub> :Er Thin Films Deposited by Magnetron Sputtering. <i>Materials</i> , 2021, 14, 4085.	1.3	10
38	Frequency-dependent electrical properties in the system SnO <sub>2</sub> -TiO <sub>2</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , 2001, 12, 11-16.	1.1	9
39	TiO <sub>2</sub> -based photoanodes modified with GO and MoS <sub>2</sub> layered materials. <i>RSC Advances</i> , 2016, 6, 102886-102898.	1.7	9
40	Oxide Nanomaterials for Photoelectrochemical Hydrogen Energy Sources. <i>Advances in Inorganic Chemistry</i> , 2018, , 145-183.	0.4	9
41	TiO <sub>2</sub> @Cu <sub>2</sub> O n-n Type Heterostructures for Photochemistry. <i>Materials</i> , 2021, 14, 3725.	1.3	9
42	Hard template synthesis of titanium dioxide hollow spheres. <i>Micro and Nano Letters</i> , 2014, 9, 721-725.	0.6	6
43	Incorporation of chromium into TiO <sub>2</sub> nanopowders. <i>Materials Research Bulletin</i> , 2015, 64, 112-116.	2.7	6
44	The Structure and Bond Strength of Composite Carbide Coatings (WC-Co+Ni) Deposited on Ductile Cast Iron by Thermal Spraying. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 502-509.	1.2	6
45	Electrochemical Characterization of Modified Glassy Carbon Electrodes for Non-Enzymatic Glucose Sensors. <i>Sensors</i> , 2021, 21, 7928.	2.1	6
46	Ammonolysis of polycrystalline and amorphized gallium arsenide GaAs to polytype-specific nanopowders of gallium nitride GaN. <i>RSC Advances</i> , 2016, 6, 41074-41086.	1.7	5
47	New insights into the formation of multi-core-shell mesoporous SnO <sub>2</sub> @SnS <sub>2</sub> nanostructures. <i>Materials Research Letters</i> , 2021, 9, 445-451.	4.1	5
48	Array of Gas Sensors Based on TiO <sub>2</sub> Upon Temperature Modulation. , 2018, , .		3
49	The effect of cationic ratio on the semiconducting and the dielectrical properties of barium metatitanate. <i>Reactivity of Solids</i> , 1989, 7, 43-52.	0.3	2
50	Interface design, surface-related properties, and their role in interfacial electron transfer. Part II: Photochemistry-related topics. <i>Advances in Inorganic Chemistry</i> , 2022, , .	0.4	2
51	Interface design, surface-related properties, and their role in interfacial electron transfer. Part I: Materials-related topics. <i>Advances in Inorganic Chemistry</i> , 2022, , 377-413.	0.4	2
52	Preparation and application in gas detection of rutile oxide semiconductors. , 1997, , .		1
53	Response and sensitivity of TiO <sub>2</sub> -SnO <sub>2</sub> semiconducting sensors for reducing gases. , 2006, , .		0
54	TiO <sub>2</sub> /SnO <sub>2</sub> Gas Sensors of H <sub>2</sub> . , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	The Effect of Elastic and Inelastic Scattering on Electronic Transport in Open Systems. International Journal of Applied Mathematics and Computer Science, 2019, 29, 427-437.	1.5	0
56	Size Effect in Nanostructured SnO <sub>2</sub> /TiO <sub>2</sub> Gas Sensors. ECS Meeting Abstracts, 2020, MA2020-01, 2040-2040.	0.0	0