

Raul Zazpe

List of Publications by Year in descending order

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58
papers

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citations

304743

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all docs

58
docs citations

58
times ranked

2068
citing authors

#	ARTICLE	IF	CITATIONS
1	A Light-Controlled Resistive Switching Memory. <i>Advanced Materials</i> , 2012, 24, 2496-2500.	21.0	138
2	Highly efficient photoelectrochemical and photocatalytic anodic TiO ₂ nanotube layers with additional TiO ₂ coating. <i>Applied Materials Today</i> , 2017, 9, 104-110.	4.3	83
3	Influence of annealing temperatures on the properties of low aspect-ratio TiO ₂ nanotube layers. <i>Electrochimica Acta</i> , 2016, 213, 452-459.	5.2	79
4	One-dimensional anodic TiO ₂ nanotubes coated by atomic layer deposition: Towards advanced applications. <i>Applied Materials Today</i> , 2019, 14, 1-20.	4.3	78
5	Atomic Layer Deposition for Coating of High Aspect Ratio TiO ₂ Nanotube Layers. <i>Langmuir</i> , 2016, 32, 10551-10558.	3.5	74
6	Ion-transfer voltammetry at silicon membrane-based arrays of micro-liquid-liquid interfaces. <i>Lab on a Chip</i> , 2007, 7, 1732.	6.0	70
7	ALD Al ₂ O ₃ -Coated TiO ₂ Nanotube Layers as Anodes for Lithium-Ion Batteries. <i>ACS Omega</i> , 2017, 2, 2749-2756.	3.5	60
8	Resistive switching dependence on atomic layer deposition parameters in HfO ₂ -based memory devices. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3204-3211.	5.5	52
9	Electrochemical detection of dopamine using arrays of liquid-liquid micro-interfaces created within micromachined silicon membranes. <i>Analytica Chimica Acta</i> , 2008, 611, 156-162.	5.4	50
10	ZnO Coated Anodic 1D TiO ₂ Nanotube Layers: Efficient Photo-Electrochemical and Gas Sensing Heterojunction. <i>Advanced Engineering Materials</i> , 2018, 20, 1700589.	3.5	48
11	Anodic TiO ₂ nanotubes decorated by Pt nanoparticles using ALD: An efficient electrocatalyst for methanol oxidation. <i>Journal of Catalysis</i> , 2018, 365, 86-93.	6.2	45
12	Electrochemical Infilling of CuInSe ₂ within TiO ₂ Nanotube Layers and Subsequent Photoelectrochemical Studies. <i>ChemElectroChem</i> , 2017, 4, 495-499.	3.4	44
13	Atomic Layer Deposition Al ₂ O ₃ Coatings Significantly Improve Thermal, Chemical, and Mechanical Stability of Anodic TiO ₂ Nanotube Layers. <i>Langmuir</i> , 2017, 33, 3208-3216.	3.5	44
14	Uniform ALD deposition of Pt nanoparticles within 1D anodic TiO ₂ nanotubes for photocatalytic H ₂ generation. <i>Electrochemistry Communications</i> , 2018, 86, 6-11.	4.7	43
15	2D MoSe ₂ Structures Prepared by Atomic Layer Deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800023.	2.4	39
16	A 1D conical nanotubular TiO ₂ /CdS heterostructure with superior photon-to-electron conversion. <i>Nanoscale</i> , 2018, 10, 16601-16612.	5.6	39
17	CdS-coated TiO ₂ nanotube layers: downscaling tube diameter towards efficient heterostructured photoelectrochemical conversion. <i>Nanoscale</i> , 2017, 9, 7755-7759.	5.6	38
18	Scaling up anodic TiO ₂ nanotube layers for gas phase photocatalysis. <i>Electrochemistry Communications</i> , 2018, 97, 91-95.	4.7	37

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19	2D MoS ₂ nanosheets on 1D anodic TiO ₂ nanotube layers: an efficient co-catalyst for liquid and gas phase photocatalysis. <i>Nanoscale</i> , 2019, 11, 23126-23131.	5.6	34
20	Atomic Layer Deposition of SnO ₂ -Coated Anodic One-Dimensional TiO ₂ Nanotube Layers for Low Concentration NO ₂ Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33386-33396.	8.0	28
21	Thin TiO ₂ Coatings by ALD Enhance the Cell Growth on TiO ₂ Nanotubular and Flat Substrates. <i>ACS Applied Bio Materials</i> , 2020, 3, 6447-6456.	4.6	27
22	Atomic Layer Deposition of MoSe ₂ Nanosheets on TiO ₂ Nanotube Arrays for Photocatalytic Dye Degradation and Electrocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 12034-12045.	5.0	25
23	ALD growth of MoS ₂ nanosheets on TiO ₂ nanotube supports. <i>FlatChem</i> , 2019, 17, 100130.	5.6	22
24	Atomic layer deposition of photoelectrocatalytic material on 3D-printed nanocarbon structures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11405-11414.	10.3	21
25	Anodic TiO ₂ nanotube walls reconstructed: Inner wall replaced by ALD TiO ₂ coating. <i>Applied Surface Science</i> , 2021, 549, 149306.	6.1	20
26	TiO ₂ ALD Coating of Amorphous TiO ₂ Nanotube Layers: Inhibition of the Structural and Morphological Changes Due to Water Annealing. <i>Frontiers in Chemistry</i> , 2019, 7, 38.	3.6	17
27	MoSe ₂ /TiO ₂ -Coated 1D TiO ₂ Nanotube Layers: Efficient Interface for Light-Driven Applications. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701146.	3.7	16
28	Atomic Layer Deposition of MoSe ₂ Using New Selenium Precursors. <i>FlatChem</i> , 2020, 21, 100166.	5.6	16
29	Resistive switching in rectifying interfaces of metal-semiconductor-metal structures. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	15
30	Optimized Polymer Electrolyte Membrane Fuel Cell Electrode Using TiO ₂ Nanotube Arrays with Well-Defined Spacing. <i>ACS Applied Nano Materials</i> , 2020, 3, 4157-4170.	5.0	14
31	HfO ₂ based memory devices with rectifying capabilities. <i>Journal of Applied Physics</i> , 2014, 115, 024501.	2.5	12
32	Spaced TiO ₂ Nanotubes Enable Optimized Pt Atomic Layer Deposition for Efficient Photocatalytic H ₂ Generation. <i>ChemistryOpen</i> , 2018, 7, 797-802.	1.9	12
33	Structural and Optical Properties of Luminescent Copper(I) Chloride Thin Films Deposited by Sequentially Pulsed Chemical Vapour Deposition. <i>Coatings</i> , 2018, 8, 369.	2.6	12
34	2D MoTe ₂ nanosheets by atomic layer deposition: Excellent photo- electrocatalytic properties. <i>Applied Materials Today</i> , 2021, 23, 101017.	4.3	12
35	Resistive switching phenomena in TiO _x nanoparticle layers for memory applications. <i>Applied Physics Letters</i> , 2014, 105, 143506.	3.3	11
36	Ideally Hexagonally Ordered TiO ₂ Nanotube Arrays. <i>ChemistryOpen</i> , 2017, 6, 480-483.	1.9	10

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37	Molybdenum diselenide thin films grown by atomic layer deposition: An XPS analysis. Surface Science Spectra, 2020, 27, .	1.3	10
38	TiO ₂ Nanotube Layers Decorated with Al ₂ O ₃ /MoS ₂ /Al ₂ O ₃ as Anode for Li-ion Microbatteries with Enhanced Cycling Stability. Nanomaterials, 2020, 10, 953.	4.1	9
39	Cyclic Silylselenides: Convenient Selenium Precursors for Atomic Layer Deposition. ChemPlusChem, 2020, 85, 576-579.	2.8	8
40	Protection of hematite photoelectrodes by ALD-TiO ₂ capping. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 409, 113126.	3.9	7
41	ALD coating of centrifugally spun polymeric fibers and postannealing: case study for nanotubular TiO ₂ photocatalyst. Nanoscale Advances, 2021, 3, 4589-4596.	4.6	5
42	Organoselenium Precursors for Atomic Layer Deposition. ACS Omega, 2021, 6, 6554-6558.	3.5	3
43	Removal of Ibuprofen from Water by Different Types Membranes. Polymers, 2021, 13, 4082.	4.5	3
44	Chiral Templating of Polycarbonate Membranes by Pinene Using the Modified Atomic Layer Deposition Approach. Langmuir, 2020, 36, 12723-12734.	3.5	3
45	Deposition of MoSe ₂ flakes using cyclic selenides. RSC Advances, 2021, 11, 22140-22147.	3.6	2
46	Molybdenum Disulfides and Diselenides By Atomic Layer Deposition. ECS Meeting Abstracts, 2020, MA2020-01, 837-837.	0.0	1
47	(Invited) Anodic TiO ₂ Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2021, MA2021-01, 1928-1928.	0.0	0
48	Secondary Material Modified Anodic TiO ₂ Nanotube Layers As Efficient Gas Sensors. ECS Meeting Abstracts, 2021, MA2021-01, 1483-1483.	0.0	0
49	Anodic TiO ₂ Nanotube Layers As Scaffolds for Deposition of Functional Materials. ECS Meeting Abstracts, 2021, MA2021-01, 926-926.	0.0	0
50	(Invited) Anodic TiO ₂ Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2019, , .	0.0	0
51	Noble Metal Decorated Anodic TiO ₂ Nanotubes: Excellent (Electro)Catalyst. ECS Meeting Abstracts, 2019, , .	0.0	0
52	Molybdenum Disulfides and Diselenides By Atomic Layer Deposition. ECS Meeting Abstracts, 2019, , .	0.0	0
53	Molybdenum Disulfides and Diselenides By Atomic Layer Deposition. ECS Meeting Abstracts, 2019, , .	0.0	0
54	Anodic TiO ₂ Nanotube Layers As Scaffolds for Deposition of Functional Materials. ECS Meeting Abstracts, 2020, MA2020-01, 1202-1202.	0.0	0

#	ARTICLE	IF	CITATIONS
55	Anodic TiO ₂ Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2021, MA2021-02, 1439-1439.	0.0	0
56	Anodic TiO ₂ Nanotube Layers: Efficient Photocatalyst. ECS Meeting Abstracts, 2020, MA2020-02, 3061-3061.	0.0	0
57	Atomic Layer Deposition for Modification of Various 1D Nanomaterials. ECS Meeting Abstracts, 2021, MA2021-02, 905-905.	0.0	0
58	2D Molybdenum Dichalcogenides by Atomic Layer Deposition. ECS Meeting Abstracts, 2021, MA2021-02, 903-903.	0.0	0