Nicola Bazzanella

List of Publications by Year
in descending order

33	769	567144 15	501076 28
papers	citations	h-index	g-index

33	33	33	1124
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparative gas-sensing performance of 1D and 2D ZnO nanostructures. Sensors and Actuators B: Chemical, 2015, 220, 1152-1160.	4.0	81
2	Catalytic effect on hydrogen desorption in Nb-doped microcrystalline MgH2. Applied Physics Letters, 2004, 85, 5212-5214.	1.5	66
3	High quality factor 1-D Er^3+-activated dielectric microcavity fabricated by RF-sputtering. Optics Express, 2012, 20, 21214.	1.7	64
4	Wastewater remediation with ZnO photocatalysts: Green synthesis and solar concentration as an economically and environmentally viable route to application. Journal of Environmental Management, 2021, 286, 112226.	3.8	54
5	Enhanced hydrogen production by hydrolysis of NaBH4 using â€œCo-B nanoparticles supported on Carbon filmâ€•catalyst synthesized by pulsed laser deposition. Catalysis Today, 2011, 170, 20-26.	2.2	41
6	Deuterium storage in nanocrystalline magnesium thin films. Journal of Applied Physics, 2004, 95, 1989-1995.	1.1	40
7	Structural evolution of Pd-capped Mg thin films under H2 absorption and desorption cycles. International Journal of Hydrogen Energy, 2009, 34, 4817-4826.	3.8	40
8	Enhanced H 2 production from hydrolysis of sodium borohydride using Co 3 O 4 nanoparticles assembled coatings prepared by pulsed laser deposition. Applied Catalysis A: General, 2016, 515, 1-9.	2.2	38
9	Pulsed-Laser Deposition of Nanostructured Iron Oxide Catalysts for Efficient Water Oxidation. ACS Applied Materials & Interfaces, 2014, 6, 6186-6190.	4.0	37
10	Ruthenium nanoparticles supported over carbon thin film catalyst synthesized by pulsed laser deposition for hydrogen production from ammonia borane. Applied Catalysis A: General, 2015, 495, 23-29.	2.2	37
11	On the effect of Sn-doping in hematite anodes for oxygen evolution. Electrochimica Acta, 2016, 214, 345-353.	2.6	37
12	Coâ€“Pâ€“B catalyst thin films prepared by electroless and pulsed laser deposition for hydrogen generation by hydrolysis of alkaline sodium borohydride: A comparison. Thin Solid Films, 2010, 518, 4779-4785.	0.8	34
13	3D hierarchical nanostructures of iron oxides coatings prepared by pulsed laser deposition for photocatalytic water purification. Applied Catalysis B: Environmental, 2017, 219, 401-411.	10.8	30
14	On the route towards a facile fluorescent nanodiamonds laser-synthesis. Carbon, 2019, 153, 148-155.	5.4	20
15	Backscattered electrons from gold surface films deposited on silicon substrates: a joint experimental and computational investigation to add new potentiality to electron microscopy. Surface and Interface Analysis, 2013, 45, 677-681.	0.8	16
16	Mg:Nb films produced by pulsed laser deposition for hydrogen storage. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 108, 33-37.	1.7	15
17	Synthesis of mesoporous ITO/TiO2 electrodes for optoelectronics. Materials Letters, 2015, 139, 355-358.	1.3	15
18	Porous versus Compact Nanosized Fe(III)-Based Water Oxidation Catalyst for Photoanodes Functionalization. ACS Applied Materials & Interfaces, 2016, 8, 20003-20011.	4.0	15

#	Article	IF	Citations
19	Backscattered electrons from surface films deposited on bulk targets: A comparison between computational and experimental results. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1672-1674.	0.6	14
20	Pulsed laser deposition of nickel oxide films with improved optical properties to functionalize solar light absorbing photoanodes and very low overpotential for water oxidation catalysis. Materials Science in Semiconductor Processing, 2019, 97, 29-34.	1.9	13
21	Fluorescent Aptamer Immobilization on Inverse Colloidal Crystals. Sensors, 2018, 18, 4326.	2.1	12
22	Catalytic effect of mixed Zrâ€“Fe additives on the hydrogen desorption kinetics of MgH2. Applied Physics Letters, 2008, 92, 051910.	1.5	11
23	Improvement of the electron collection efficiency in porous hematite using a thin iron oxide underlayer: towards efficient all-iron based photoelectrodes. Physical Chemistry Chemical Physics, 2015, 17, 29661-29670.	1.3	10
24	Laser-Synthesis of NV-Centers-Enriched Nanodiamonds: Effect of Different Nitrogen Sources. Micromachines, 2020, 11, 579.	1.4	6
25	Evaluation of the role of beam homogeneity on the mechanical coupling of laser-ablation-generated impulse. Applied Optics, 2021, 60, H37.	0.9	5
26	Electrophoretic deposition of colloidal TiO2 nanorods towards nano-porous thin-films. Materials Letters, 2016, 174, 226-229.	1.3	4
27	Rational Design Combining Morphology and Charge-Dynamic for Hematite/Nickelâ€“Iron Oxide Thin-Layer Photoanodes: Insights into the Role of the Absorber/Catalyst Junction. ACS Applied Materials & Interfaces, 2019, 11, 48002-48012.	4.0	3
28	Fluorescent Nanodiamonds Synthesized in One-Step by Pulsed Laser Ablation of Graphite in Liquid-Nitrogen. Journal of Carbon Research, 2021, 7, 49.	1.4	3
29	Ballistic measurements of laser ablation generated impulse. Measurement Science and Technology, 0, , .	1.4	3
30	Poly(vinyl chloride) Coupling with UV Laser Radiation: Comparison between Polymer Absorbers and Nanoparticles to Increase Efficiency for Laser Ablation Propulsion. Journal of Physical Chemistry C, 2021, 125, 28088-28099.	1.5	3
31	High quality factor dielectric multilayer structures fabricated by rf-sputtering. Proceedings of SPIE, 2012, , .	0.8	1
32	Modification of the Nearâ€Infrared Spontaneous Emission in Er³⁺â€Activated Inverse Silica Opals. Physica Status Solidi (B): Basic Research, 2020, 257, 1900476.	0.7	1
33	Synthesis of Lead Nanowires in a Single Co-Sputtering Deposition Step. Journal of Nanoscience and Nanotechnology, 2012, 12, 8759-8763.	0.9	0