

Fabio Di Fonzo

List of Publications by Year in descending order

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papers

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citations

117625

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144013

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99
all docs

99
docs citations

99
times ranked

5313
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical TiO ₂ Photoanode for Dye-Sensitized Solar Cells. Nano Letters, 2010, 10, 2562-2567.	9.1	331
2	Photoluminescence Mechanisms in Anatase and Rutile TiO ₂ . Journal of Physical Chemistry C, 2017, 121, 9011-9021.	3.1	197
3	Nanostructured tungsten oxide with controlled properties: Synthesis and Raman characterization. Thin Solid Films, 2007, 515, 6465-6469.	1.8	128
4	Hierarchically organized nanostructured TiO ₂ for photocatalysis applications. Nanotechnology, 2009, 20, 015604.	2.6	122
5	Highly ductile amorphous oxide at room temperature and high strain rate. Science, 2019, 366, 864-869.	12.6	107
6	Focused nanoparticle-beam deposition of patterned microstructures. Applied Physics Letters, 2000, 77, 910-912.	3.3	95
7	Corrosion and radiation resistant nanoceramic coatings for lead fast reactors. Corrosion Science, 2017, 124, 80-92.	6.6	88
8	Polymer-based photocathodes with a solution-processable cuprous iodide anode layer and a polyethyleneimine protective coating. Energy and Environmental Science, 2016, 9, 3710-3723.	30.8	86
9	Advanced Al ₂ O ₃ coatings for high temperature operation of steels in heavy liquid metals: a preliminary study. Corrosion Science, 2013, 77, 375-378.	6.6	84
10	Characterization of a Polymer-Based, Fully Organic Prosthesis for Implantation into the Subretinal Space of the Rat. Advanced Healthcare Materials, 2016, 5, 2271-2282.	7.6	75
11	Growth regimes in pulsed laser deposition of aluminum oxide films. Applied Physics A: Materials Science and Processing, 2008, 93, 765-769.	2.3	73
12	Synthesis and characterization of tungsten and tungsten oxide nanostructured films. Catalysis Today, 2006, 116, 69-73.	4.4	72
13	Self-Assembled Hierarchical Nanostructures for High-Efficiency Porous Photonic Crystals. ACS Nano, 2014, 8, 12167-12174.	14.6	71
14	Pulsed laser deposition of tungsten and tungsten oxide thin films with tailored structure at the nano- and mesoscale. Applied Surface Science, 2007, 253, 8130-8135.	6.1	70
15	Structural and functional properties of Al:ZnO thin films grown by Pulsed Laser Deposition at room temperature. Thin Solid Films, 2012, 520, 4707-4711.	1.8	70
16	Hybrid organic-inorganic H ₂ -evolving photocathodes: understanding the route towards high performance organic photoelectrochemical water splitting. Journal of Materials Chemistry A, 2016, 4, 2178-2187.	10.3	70
17	Graphite distributed electrodes for diamond-based photon-enhanced thermionic emission solar cells. Carbon, 2017, 111, 48-53.	10.3	67
18	The mechanical properties of a nanocrystalline Al ₂ O ₃ /a-Al ₂ O ₃ composite coating measured by nanoindentation and Brillouin spectroscopy. Acta Materialia, 2013, 61, 2662-2670.	7.9	66

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19	Hyperbranched Quasi-1D Nanostructures for Solid-State Dye-Sensitized Solar Cells. ACS Nano, 2013, 7, 10023-10031.	14.6	65
20	Hybrid Organic/Inorganic Nanostructures for Highly Sensitive Photoelectrochemical Detection of Dissolved Oxygen in Aqueous Media. Advanced Functional Materials, 2015, 25, 4531-4538.	14.9	64
21	On the role of aggregation effects in the performance of perylene-diimide based solar cells. Organic Electronics, 2014, 15, 1347-1361.	2.6	60
22	Photocatalytic behavior of different titanium dioxide layers. Thin Solid Films, 2007, 515, 6309-6313.	1.8	59
23	Structure-dependent optical and electrical transport properties of nanostructured Al-doped ZnO. Nanotechnology, 2012, 23, 365706.	2.6	55
24	Transition Metal Chalcogenides as a Versatile and Tunable Platform for Catalytic CO ₂ and N ₂ Electroreduction. ACS Materials Au, 2021, 1, 6-36.	6.0	55
25	Few-layer graphene improves silicon performance in Li-ion battery anodes. Journal of Materials Chemistry A, 2017, 5, 19306-19315.	10.3	54
26	Radiation endurance in Al ₂ O ₃ nanoceramics. Scientific Reports, 2016, 6, 33478.	3.3	47
27	Simultaneous Tenfold Brightness Enhancement and Emitted Light Spectral Tunability in Transparent Ambipolar Organic Light-Emitting Transistor by Integration of High-κ Photonic Crystal. Advanced Functional Materials, 2017, 27, 1605164.	14.9	45
28	Air-Processed Infrared-Annealed Printed Methylammonium-Free Perovskite Solar Cells and Modules Incorporating Potassium-Doped Graphene Oxide as an Interlayer. ACS Applied Materials & Interfaces, 2021, 13, 11741-11754.	8.0	45
29	Stabilizing organic photocathodes by low-temperature atomic layer deposition of TiO ₂ . Sustainable Energy and Fuels, 2017, 1, 1915-1920.	4.9	43
30	Hybrid Nanodielectrics for Low-Voltage Organic Electronics. Advanced Functional Materials, 2014, 24, 1790-1798.	14.9	41
31	Quasi-1D hyperbranched WO ₃ nanostructures for low-voltage photoelectrochemical water splitting. Journal of Materials Chemistry A, 2015, 3, 6110-6117.	10.3	41
32	Nanostructured Ag ₄ O ₄ films with enhanced antibacterial activity. Nanotechnology, 2008, 19, 475602.	2.6	38
33	TiO ₂ Nanotubes: Interdependence of Substrate Grain Orientation and Growth Rate. ACS Applied Materials & Interfaces, 2015, 7, 1662-1668.	8.0	37
34	Nanostructured high valence silver oxide produced by pulsed laser deposition. Applied Surface Science, 2009, 255, 5248-5251.	6.1	34
35	TiO ₂ Nanotubes: Interdependence of Substrate Grain Orientation and Growth Characteristics. Journal of Physical Chemistry C, 2012, 116, 384-392.	3.1	34
36	Giant O ₂ -Induced Photoluminescence Modulation in Hierarchical Titanium Dioxide Nanostructures. ACS Sensors, 2017, 2, 61-68.	7.8	34

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37	Light-Controlled Resistance Modulation in a Photochromic Diarylethene-Carbon Nanotube Blend. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19483-19489.	3.1	32
38	Core level spectroscopy of free titanium clusters in supersonic beams. <i>New Journal of Physics</i> , 2006, 8, 136-136.	2.9	31
39	On the Li Intercalation Kinetics in Tree-Like WO ₃ Electrodes and Their Implementation in Fast Switchable Electrochromic Devices. <i>Advanced Optical Materials</i> , 2015, 3, 1614-1622.	7.3	30
40	The real TiO ₂ /HTM interface of solid-state dye solar cells: role of trapped states from a multiscale modelling perspective. <i>Nanoscale</i> , 2015, 7, 1136-1144.	5.6	30
41	All Solution-Processed, Hybrid Organic-Inorganic Photocathode for Hydrogen Evolution. <i>ACS Omega</i> , 2017, 2, 3424-3431.	3.5	29
42	Non-Equilibrium Synthesis of Highly Active Nanostructured, Oxygen-Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. <i>Small</i> , 2020, 16, e2004047.	10.0	29
43	Moisture resistance in perovskite solar cells attributed to a water-splitting layer. <i>Communications Materials</i> , 2021, 2, .	6.9	29
44	Thermal plasma deposition of nanophase hard coatings. <i>Surface and Coatings Technology</i> , 2001, 142-144, 265-271.	4.8	26
45	Stable hybrid organic/inorganic photocathodes for hydrogen evolution with amorphous WO ₃ hole selective contacts. <i>Faraday Discussions</i> , 2017, 198, 433-448.	3.2	26
46	Extreme ion irradiation of oxide nanoceramics: Influence of the irradiation spectrum. <i>Acta Materialia</i> , 2018, 143, 156-165.	7.9	26
47	Development of anti-permeation and corrosion barrier coatings for the WCLL breeding blanket of the European DEMO. <i>Fusion Engineering and Design</i> , 2021, 170, 112453.	1.9	26
48	Multiscale Effect of Hierarchical Self-Assembled Nanostructures on Superhydrophobic Surface. <i>Langmuir</i> , 2014, 30, 13581-13587.	3.5	25
49	Injection Length in Staggered Organic Thin Film Transistors: Assessment and Implications for Device Downscaling. <i>Advanced Electronic Materials</i> , 2016, 2, 1600097.	5.1	25
50	Efficient hydrogen and deuterium permeation reduction in Al ₂ O ₃ coatings with enhanced radiation tolerance and corrosion resistance. <i>Nuclear Fusion</i> , 2018, 58, 126007.	3.5	25
51	Nanostructured Pd barrier for low methanol crossover DMFC. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2801-2811.	7.1	24
52	Early stages of dissolution corrosion in 316L and DIN 1.4970 austenitic stainless steels with and without anticorrosion coatings in static liquid lead-bismuth eutectic (LBE) at 500°C. <i>Materials Characterization</i> , 2021, 178, 111234.	4.4	23
53	Multifunctional nanoceramic coatings for future generation nuclear systems. <i>Fusion Engineering and Design</i> , 2019, 146, 1628-1632.	1.9	22
54	Nano-crystalline Ag-PbTe thermoelectric thin films by a multi-target PLD system. <i>Applied Surface Science</i> , 2015, 336, 283-289.	6.1	21

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55	Towards an electronic grade nanoparticle-assembled silicon thin film by ballistic deposition at room temperature: the deposition method, and structural and electronic properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3725-3735.	5.5	19
56	A Supersonic Plasma Jet Source for Controlled and Efficient Thin Film Deposition. <i>Journal of Modern Physics</i> , 2012, 03, 1626-1638.	0.6	18
57	Dye-sensitized solar cells containing plasma jet deposited hierarchically nanostructured TiO ₂ thin photoanodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11665.	10.3	16
58	Nanoscale Analysis of a Hierarchical Hybrid Solar Cell in 3D. <i>Advanced Functional Materials</i> , 2014, 24, 3043-3050.	14.9	16
59	Room temperature deposition of high figure of merit Al-doped zinc oxide by pulsed-direct current magnetron sputtering: Influence of energetic negative ion bombardment on film's optoelectronic properties. <i>Thin Solid Films</i> , 2014, 569, 44-51.	1.8	16
60	Direct Hydrogen Evolution from Saline Water Reduction at Neutral pH using Organic Photocathodes. <i>ChemSusChem</i> , 2016, 9, 3062-3066.	6.8	16
61	Hyperbranched TiO ₂ /CdS nano-heterostructures for highly efficient photoelectrochemical photoanodes. <i>Nanotechnology</i> , 2018, 29, 335404.	2.6	16
62	Precision and accuracy in film stiffness measurement by Brillouin spectroscopy. <i>Review of Scientific Instruments</i> , 2011, 82, 053107.	1.3	15
63	Hyperbranched Quasi-1D TiO ₂ Nanostructure for Hybrid Organic-Inorganic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7451-7455.	8.0	14
64	Hierarchical TiN Nanostructured Thin Film Electrode for Highly Stable PEM Fuel Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 1911-1922.	5.1	14
65	Highly Performing Al:ZnO Thin Films Grown by Pulsed Laser Deposition at Room Temperature. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 484-486.	0.4	13
66	Island Organization of TiO ₂ Hierarchical Nanostructures Induced by Surface Wetting and Drying. <i>Langmuir</i> , 2011, 27, 1935-1941.	3.5	12
67	Infrared absorption of fs-laser textured CVD diamond. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	12
68	Photoelectrochemical water splitting by hybrid organic-inorganic systems: Setting the path from 2% to 20% solar-to-hydrogen conversion efficiency. <i>IScience</i> , 2021, 24, 102463.	4.1	12
69	Absolute radiation tolerance of amorphous alumina coatings at room temperature. <i>Ceramics International</i> , 2021, 47, 34740-34750.	4.8	12
70	A Three-Dimensional Architecture for Hydrogen-Evolving, Host/Guest, Hybrid Organic/Inorganic Photocathodes Based on Nanolamellar MoO ₃ Scaffolds. <i>ChemPhotoChem</i> , 2018, 2, 283-292.	3.0	11
71	Large area porous 1D photonic crystals comprising silicon hierarchical nanostructures grown by plasma-assisted, nanoparticle jet deposition. <i>Nanotechnology</i> , 2018, 29, 465603.	2.6	11
72	Corrosion protective action of different coatings for the helium cooled pebble bed breeder concept. <i>Journal of Nuclear Materials</i> , 2019, 516, 160-168.	2.7	11

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73	Black-silicon production process by CF ₄ /H ₂ plasma. Thin Solid Films, 2016, 603, 173-179.	1.8	9
74	Multi-layered hierarchical nanostructures for transparent monolithic dye-sensitized solar cell architectures. Nanotechnology, 2017, 28, 245603.	2.6	8
75	Improving the layer morphology of solution-processed perylene diimide organic solar cells with the use of a polymeric interlayer. Organic Photonics and Photovoltaics, 2013, 1, .	1.3	7
76	A novel method for enhancing interface strength of TiC coated layer/Ti substrate. Advanced Powder Technology, 2016, 27, 354-359.	4.1	7
77	Nanomechanical testing of Alumina-Titanium functionally graded thin coatings for orthopaedic applications. Surface and Coatings Technology, 2011, 205, 2838-2845.	4.8	6
78	Hyperbranched self-assembled photoanode for high efficiency dye-sensitized solar cells. RSC Advances, 2015, 5, 93180-93186.	3.6	6
79	Molecular catalysts for artificial photosynthesis: general discussion. Faraday Discussions, 2017, 198, 353-395.	3.2	6
80	Hierarchical TiN-Supported TsFDH Nanobiocatalyst for CO ₂ Reduction to Formate. ChemElectroChem, 2021, 8, 2846-2857.	3.4	6
81	Synthesis of TiC coating on Ti substrate using pulsed laser deposition and mechanical milling techniques along with statistical modeling of the process by response surface methodology. Powder Technology, 2017, 305, 704-713.	4.2	5
82	Design of the Test Section for the Experimental Validation of Antipermeation and Corrosion Barriers for WCLL BB. Applied Sciences (Switzerland), 2022, 12, 1624.	2.5	5
83	Fabrication of Nano-engineered Transparent Conducting Oxides by Pulsed Laser Deposition. Journal of Visualized Experiments, 2013, , e50297.	0.3	4
84	Control of the chemiluminescence spectrum with porous Bragg mirrors. International Journal of Higher Education Management, 2015, 1, 65-68.	1.3	4
85	Disorder engineering in transition metal dichalcogenides toward efficient high current density reduction electrocatalysts. Current Opinion in Electrochemistry, 2021, 25, 100639.	4.8	4
86	Characterization of aluminum-based coatings after short term exposure during irradiation campaign in the LVR-15 fission reactor. Fusion Engineering and Design, 2021, 170, 112521.	1.9	4
87	Inorganic assembly catalysts for artificial photosynthesis: general discussion. Faraday Discussions, 2017, 198, 481-507.	3.2	2
88	Design of a PLD-grown Y ₂ O ₃ protective barrier for fusion relevant applications. Nuclear Fusion, 2020, 60, 106018.	3.5	2
89	Hierarchical titanium nitride nanostructured thin film gas diffusion electrodes for next generation PEM fuel cells. Electrochimica Acta, 2022, 418, 140289.	5.2	2
90	Multiscale simulation of solid state dye sensitized solar cells including morphology effects. , 2014, , .		1

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91	Effective Coating for High Efficiency Triple Junction Solar Cells. , 2019, , .		1
92	Pulsed Laser Deposition of Cluster-Assembled Thin Films with Controlled Nanostructure. Materials Research Society Symposia Proceedings, 2005, 901, 1.	0.1	0
93	Quantitative electron tomography investigation of a TiO ₂ based solar cell photoanode. Journal of Physics: Conference Series, 2014, 522, 012063.	0.4	0
94	Periodic nanostructures for tunable thin optics. Proceedings of SPIE, 2015, , .	0.8	0
95	Order from the disorder: hierarchical nanostructures self-assembled from the gas phase (Conference) Tj ETQq1 1 0.784314 rgBT /Overlo		
96	Integration of systems for demonstrating realistic devices: general discussion. Faraday Discussions, 2017, 198, 539-547.	3.2	0
97	Advanced Light Management in Solar Energy Conversion Devices with Quasi-1D Hierarchical Mesostructures grown by Pulsed Laser Deposition. , 2012, , .		0