Daniel Bellet

List of Publications by Year
in descending order

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39 papers	2,503 citations	279798 23 h-index	330143 37 g-index
39 all docs	39 docs citations	39 times ranked	3179 citing authors

#	Article	IF	Citations
1	Flexible transparent conductive materials based on silver nanowire networks: a review. Nanotechnology, 2013, 24, 452001.	2.6	613
2	Metallic Nanowireâ€Based Transparent Electrodes for Next Generation Flexible Devices: a Review. Small, 2016, 12, 6052-6075.	10.0	478
3	Transparent Heaters: A Review. Advanced Functional Materials, 2020, 30, 1910225.	14.9	156
4	Relationship between Material Properties and Transparent Heater Performance for Both Bulk-like and Percolative Nanostructured Networks. ACS Nano, 2014, 8, 4805-4814.	14.6	132
5	Stability Enhancement of Silver Nanowire Networks with Conformal ZnO Coatings Deposited by Atmospheric Pressure Spatial Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2018, 10, 19208-19217.	8.0	97
6	Electrical Mapping of Silver Nanowire Networks: A Versatile Tool for Imaging Network Homogeneity and Degradation Dynamics during Failure. ACS Nano, 2018, 12, 4648-4659.	14.6	78
7	Spatial Atomic Layer Deposition (SALD), an emerging tool for energy materials. Application to new-generation photovoltaic devices and transparent conductive materials. Comptes Rendus Physique, 2017, 18, 391-400.	0.9	71
8	Oxidation of copper nanowire based transparent electrodes in ambient conditions and their stabilization by encapsulation: application to transparent film heaters. Nanotechnology, 2018, 29, 085701.	2.6	68
9	Transparent Electrodes Based on Silver Nanowire Networks: From Physical Considerations towards Device Integration. Materials, 2017, 10, 570.	2.9	59
10	In situ microtomography investigation of metal powder compacts during sintering. Nuclear Instruments & Methods in Physics Research B, 2003, 200, 287-294.	1.4	58
11	High Performance ZnO-SnO₂:F Nanocomposite Transparent Electrodes for Energy Applications. ACS Applied Materials & Interfaces, 2014, 6, 14096-14107.	8.0	57
12	Deposition of ZnO based thin films by atmospheric pressure spatial atomic layer deposition for application in solar cells. Journal of Renewable and Sustainable Energy, 2017, 9, .	2.0	51
13	Low-cost fabrication of flexible transparent electrodes based on Al doped ZnO and silver nanowire nanocomposites: impact of the network density. Nanoscale, 2019, 11, 12097-12107.	5.6	51
14	Advances in Flexible Metallic Transparent Electrodes. Small, 2022, 18, e2106006.	10.0	49
15	Direct Imaging of the Onset of Electrical Conduction in Silver Nanowire Networks by Infrared Thermography: Evidence of Geometrical Quantized Percolation. Nano Letters, 2016, 16, 7046-7053.	9.1	44
16	Electron tunneling through grain boundaries in transparent conductive oxides and implications for electrical conductivity: the case of ZnO:Al thin films. Materials Horizons, 2018, 5, 715-726.	12.2	43
17	Open-air printing of Cu2O thin films with high hole mobility for semitransparent solar harvesters. Communications Materials, 2021, 2, .	6.9	39
18	Versatility of bilayer metal oxide coatings on silver nanowire networks for enhanced stability with minimal transparency loss. Nanoscale, 2019, 11, 19969-19979.	5.6	35

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19	Impact of precursor exposure on process efficiency and film properties in spatial atomic layer deposition. Chemical Engineering Journal, 2021, 403, 126234.	12.7	31
20	Percolation in networks of 1-dimensional objects: comparison between Monte Carlo simulations and experimental observations. Nanoscale Horizons, 2018, 3, 545-550.	8.0	28
21	Increasing the Electron Mobility of ZnO-Based Transparent Conductive Films Deposited by Open-Air Methods for Enhanced Sensing Performance. ACS Applied Nano Materials, 2018, 1, 6922-6931.	5.0	27
22	SnO2 Films Deposited by Ultrasonic Spray Pyrolysis: Influence of Al Incorporation on the Properties. Molecules, 2019, 24, 2797.	3.8	25
23	Influence of the Geometric Parameters on the Deposition Mode in Spatial Atomic Layer Deposition: A Novel Approach to Area-Selective Deposition. Coatings, 2019, 9, 5.	2.6	25
24	Transparent and Mechanically Resistant Silver-Nanowire-Based Low-Emissivity Coatings. ACS Applied Materials & Interfaces, 2021, 13, 21971-21978.	8.0	24
25	Rapid synthesis of ultra-long silver nanowires for high performance transparent electrodes. Nanoscale Advances, 2020, 2, 3804-3808.	4.6	19
26	Planar and Transparent Memristive Devices Based on Titanium Oxide Coated Silver Nanowire Networks with Tunable Switching Voltage. Small, 2021, 17, e2007344.	10.0	17
27	Tuning the properties of F:SnO₂ (FTO) nanocomposites with S:TiO₂ nanoparticles â€“ promising hazy transparent electrodes for photovoltaics applications. Journal of Materials Chemistry C, 2017, 5, 91-102.	5.5	15
28	High quality epitaxial fluorine-doped SnO2 films by ultrasonic spray pyrolysis: Structural and physical property investigation. Materials and Design, 2017, 132, 518-525.	7.0	15
29	Dynamic degradation of metallic nanowire networks under electrical stress: a comparison between experiments and simulations. Nanoscale Advances, 2021, 3, 675-681.	4.6	13
30	Open-air, low-temperature deposition of phase pure Cu₂O thin films as efficient hole-transporting layers for silicon heterojunction solar cells. Journal of Materials Chemistry A, 2021, 9, 15968-15974.	10.3	12
31	Effects of non-homogeneity and oxide coating on silver nanowire networks under electrical stress: comparison between experiment and modeling. Nanotechnology, 2021, 32, 445702.	2.6	12
32	Silver Nanowire Networks: Ways to Enhance Their Physical Properties and Stability. Nanomaterials, 2021, 11, 2785.	4.1	12
33	Spatial Atomic Layer Deposition. , 0, , .		10
34	Unveiling Key Limitations of ZnO/Cu₂O All-Oxide Solar Cells through Numerical Simulations. ACS Applied Energy Materials, 2022, 5, 5423-5433.	5.1	10
35	Polymorphism of the Blocking TiO2 Layer Deposited on F:SnO2 and Its Influence on the Interfacial Energetic Alignment. Journal of Physical Chemistry C, 2017, 121, 17305-17313.	3.1	9
36	Electrical Properties of Low-Temperature Processed Sn-Doped In2O3 Thin Films: The Role of Microstructure and Oxygen Content and the Potential of Defect Modulation Doping. Materials, 2019, 12, 2232.	2.9	8

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37	Time of Failure of Metallic Nanowire Networks under Coupled Electrical and Thermal Stress: Implications for Transparent Electrodes Lifetime. ACS Applied Nano Materials, 2022, 5, 2102-2112.	5.0	8
38	Hazy Al2O3-FTO Nanocomposites: A Comparative Study with FTO-Based Nanocomposites Integrating ZnO and S:TiO2 Nanostructures. Nanomaterials, 2018, 8, 440.	4.1	3
39	Metallic Nanowire Percolating Network: From Main Properties to Applications. , 0, , .		1