Viet Huong Nguyen

List of Publications by Year
in descending order

42	871	516710 16	477307 29
papers	citations	h-index	g-index

42	42	42	804
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	Transparent Electrodes Based on Silver Nanowire Networks: From Physical Considerations towards Device Integration. Materials, 2017, 10, 570.	2.9	59
5	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
6	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
7	Advances in Flexible Metallic Transparent Electrodes. Small, 2022, 18, e2106006.	10.0	49
8	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
9	Quantumâ€Tunneling Metalâ€Insulatorâ€Metal Diodes Made by Rapid Atmospheric Pressure Chemical Vapor Deposition. Advanced Functional Materials, 2019, 29, 1805533.	14.9	39
10	Open-air printing of Cu2O thin films with high hole mobility for semitransparent solar harvesters. Communications Materials, 2021, 2, .	6.9	39
11	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
12	Impact of precursor exposure on process efficiency and film properties in spatial atomic layer deposition. Chemical Engineering Journal, 2021, 403, 126234.	12.7	31
13	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
14	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
15	Gasâ€Phase 3D Printing of Functional Materials. Advanced Materials Technologies, 2020, 5, 2000657.	5.8	22
16	Atmospheric Plasma-Enhanced Spatial Chemical Vapor Deposition of SiO₂ Using Trivinylmethoxysilane and Oxygen Plasma. Chemistry of Materials, 2020, 32, 5153-5161.	6.7	17
17	Planar and Transparent Memristive Devices Based on Titanium Oxide Coated Silver Nanowire Networks with Tunable Switching Voltage. Small, 2021, 17, e2007344.	10.0	17
18	Highly Sensitive Self-Actuated Zinc Oxide Resonant Microcantilever Humidity Sensor. Nano Letters, 2022, 22, 3196-3203.	9.1	15

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19	Atmospheric atomic layer deposition of SnO₂ thin films with tin(<scp>ii</scp>) acetylacetonate and water. Dalton Transactions, 2022, 51, 9278-9290.	3.3	15
20	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
21	Spatial Atomic Layer Deposition. , 0, , .		10
22	ZnO based nanowire network for gas sensing applications. Materials Research Express, 2019, 6, 084004.	1.6	9
23	Ultrathin TiO_x Interfaceâ€Mediated ZnOâ€Nanowire Memristive Devices Emulating Synaptic Behaviors. Advanced Electronic Materials, 2019, 5, 1900142.	5.1	9
24	Cu₂O Thin Films: The Role of Humidity in Tuning the Texture and Electrical Properties of Cu₂O Thin Films Deposited via Aerosolâ€Assisted CVD (Adv. Mater. Interfaces 3/2019). Advanced Materials Interfaces, 2019, 6, 1970020.	3.7	9
25	Nanoscale Film Thickness Gradients Printed in Open Air by Spatially Varying Chemical Vapor Deposition. Advanced Functional Materials, 2021, 31, 2103271.	14.9	8
26	Titanium Nitride Nanodonuts Synthesized from Natural Ilmenite Ore as a Novel and Efficient Thermoplasmonic Material. Nanomaterials, 2021, 11, 76.	4.1	7
27	Al2O3, Al doped ZnO and SnO2 encapsulation of randomly oriented ZnO nanowire networks for high performance and stable electrical devices. Nanotechnology, 2019, 30, 385202.	2.6	6
28	High performance encapsulation of transparent conductive polymers by spatial atomic layer deposition. Synthetic Metals, 2022, 284, 116995.	3.9	6
29	Monolithic fabrication of nano-to-millimeter scale integrated transistors based on transparent and flexible silicon nanonets. Nano Futures, 2019, 3, 025002.	2.2	5
30	Simultaneous enhancement of specific capacitance and potential window of graphene-based electric double-layer capacitors using ferroelectric polymers. Journal of Power Sources, 2021, 507, 230268.	7.8	5
31	Silicon Heterojunction and Half-Cell configuration: optimization path for increased module power. , 2019, , .		4
32	Second harmonic generation for contactless non-destructive characterization of silicon on insulator wafers. Solid-State Electronics, 2016, 115, 237-243.	1.4	3
33	The Role of Humidity in Tuning the Texture and Electrical Properties of Cu₂O Thin Films Deposited via Aerosolâ€Assisted CVD. Advanced Materials Interfaces, 2019, 6, 1801364.	3.7	2
34	Advances in Flexible Metallic Transparent Electrodes (Small 19/2022). Small, 2022, 18, .	10.0	2
35	Metal-Insulator-Metal Diodes: Quantum-Tunneling Metal-Insulator-Metal Diodes Made by Rapid Atmospheric Pressure Chemical Vapor Deposition (Adv. Funct. Mater. 7/2019). Advanced Functional Materials, 2019, 29, 1970042.	14.9	1
36	Metallic Nanowire Percolating Network: From Main Properties to Applications. , 0, , .		1

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37	Gasâ€Phase 3D Printing: Gasâ€Phase 3D Printing of Functional Materials (Adv. Mater. Technol. 12/2020). Advanced Materials Technologies, 2020, 5, 2070074.	5.8	1
38	Second harmonic generation for non-destructive characterization of silicon-on-insulator substrates. , 2015, , .		0
39	Investigation of the optical, electrical, and elemental properties upon annealing of spatial atomic layer deposited (SALD) Al-doped ZnO thin films. , 2021, , .		0
40	Memristive Devices: Planar and Transparent Memristive Devices Based on Titanium Oxide Coated Silver Nanowire Networks with Tunable Switching Voltage (Small 21/2021). Small, 2021, 17, 2170102.	10.0	0
41	Nanoscale Film Thickness Gradients Printed in Open Air by Spatially Varying Chemical Vapor Deposition. ECS Meeting Abstracts, 2021, MA2021-02, 871-871.	0.0	0
42	(Invited) In-Situ and Combinatorial Techniques for Spatial ALD. ECS Meeting Abstracts, 2020, MA2020-02, 1666-1666.	0.0	0