

# Naoufal Bahlawane

## List of Publications by Year in descending order

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88  
papers

3,251  
citations

186265  
28  
h-index

155660  
55  
g-index

92  
all docs

92  
docs citations

92  
times ranked

4649  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prussian Blue Analogs for Rechargeable Batteries. <i>IScience</i> , 2018, 3, 110-133.	4.1	327
2	Amorphous Fe <sub>2</sub> O <sub>3</sub> as a high-capacity, high-rate and long-life anode material for lithium ion batteries. <i>Nano Energy</i> , 2014, 4, 23-30.	16.0	307
3	Catalytic oxidation of VOCs over mixed Co-Mn oxides. <i>Applied Catalysis B: Environmental</i> , 2012, 117-118, 125-134.	20.2	220
4	Synthesis of the Catalytically Active Mn <sub>3</sub> O <sub>4</sub> Spinel and Its Thermal Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6218-6224.	3.1	149
5	Tailoring the properties and the reactivity of the spinel cobalt oxide. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9224.	2.8	144
6	Vanadium Oxide Compounds Structure, Properties, and Growth from the Gas Phase. <i>Chemical Vapor Deposition</i> , 2014, 20, 299-311.	1.3	135
7	Characterization and tests of planar Co <sub>3</sub> O <sub>4</sub> model catalysts prepared by chemical vapor deposition. <i>Applied Catalysis B: Environmental</i> , 2004, 53, 245-255.	20.2	123
8	Kinetics of methane combustion over CVD-made cobalt oxide catalysts. <i>Applied Catalysis B: Environmental</i> , 2006, 67, 168-176.	20.2	116
9	Hetero-interface constructs ion reservoir to enhance conversion reaction kinetics for sodium/lithium storage. <i>Energy Storage Materials</i> , 2019, 18, 107-113.	18.0	105
10	Conversion-Enabled Alloying Anode Materials for Sodium Ion Batteries. <i>Small</i> , 2021, 17, e2101137.	10.0	102
11	Influence of the Arrangement of the Octahedrally Coordinated Trivalent Cobalt Cations on the Electrical Charge Transport and Surface Reactivity. <i>Chemistry of Materials</i> , 2010, 22, 4158-4165.	6.7	68
12	Transparent conductive CuCrO <sub>2</sub> thin films deposited by pulsed injection metal organic chemical vapor deposition: up-scalable process technology for an improved transparency/conductivity trade-off. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4278-4287.	5.5	63
13	CVD of Al <sub>2</sub> O <sub>3</sub> Thin Films Using Aluminum Tri-isopropoxide. <i>Chemical Vapor Deposition</i> , 2003, 9, 194-198.	1.3	53
14	Catalytic oxidation of hydrocarbons over Co <sub>3</sub> O <sub>4</sub> catalyst prepared by CVD. <i>Catalysis Communications</i> , 2009, 11, 118-122.	3.3	53
15	Recent advances in vanadium pentoxide (V <sub>2</sub> O <sub>5</sub> ) towards related applications in chromogenics and beyond: fundamentals, progress, and perspectives. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4019-4071.	5.5	53
16	Atomic layer deposition of vanadium oxides: process and application review. <i>Materials Today Chemistry</i> , 2019, 12, 396-423.	3.5	46
17	Visible Thermo-chromism in Vanadium Pentoxide Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21447-21456.	8.0	45
18	Nickel and Nickel-Based Nanoalloy Thin Films from Alcohol-Assisted Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2010, 22, 92-100.	6.7	44

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19	Effect of Solvent on the Growth of Co and Co <sub>2</sub> C Using Pulsed-Spray Evaporation Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2007, 19, 6206-6211.	6.7	42
20	CVD of Metals Using Alcohols and Metal Acetylacetonates, Part I: Optimization of Process Parameters and Electrical Characterization of Synthesized Films. <i>Chemical Vapor Deposition</i> , 2007, 13, 219-226.	1.3	39
21	Structure sensitivity of propene oxidation over Co-Mn spinels. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 2261-2268.	3.9	38
22	Improvement of the photocatalytic degradation property of atomic layer deposited ZnO thin films: the interplay between film properties and functional performances. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11453-11461.	10.3	38
23	Tailoring the Properties of Atomic Layer Deposited Nickel and Nickel Carbide Thin Films via Chain-Length Control of the Alcohol Reducing Agents. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23385-23392.	3.1	36
24	Electrical Switching in Semiconductor-Metal Self-Assembled VO <sub>2</sub> Disordered Metamaterial Coatings. <i>Scientific Reports</i> , 2016, 6, 37699.	3.3	36
25	CVD of Metals Using Alcohols and Metal Acetylacetonates, Part II: Role of Solvent and Characterization of Metal Films Made by Pulsed Spray Evaporation CVD. <i>Chemical Vapor Deposition</i> , 2007, 13, 227-231.	1.3	35
26	Changes in the structural and optical properties of CeO <sub>2</sub> nanocrystalline films: Effect of film thickness. <i>Journal of Alloys and Compounds</i> , 2009, 485, L52-L55.	5.5	32
27	Controlled synthesis of Co <sub>3</sub> O <sub>4</sub> spinel with Co(acac) <sub>3</sub> as precursor. <i>RSC Advances</i> , 2012, 2, 10809.	3.6	32
28	Catalytic complete oxidation of acetylene and propene over clay versus cordierite honeycomb monoliths without and with chemical vapor deposited cobalt oxide. <i>Chemical Engineering Journal</i> , 2015, 262, 1252-1259.	12.7	31
29	Novel sol-gel process depositing Al <sub>2</sub> O <sub>3</sub> for the improvement of graphite oxidation-resistance. <i>Thin Solid Films</i> , 2001, 396, 126-130.	1.8	30
30	Preparation of Doped Spinel Cobalt Oxide Thin Films and Evaluation of their Thermal Stability. <i>Chemical Vapor Deposition</i> , 2007, 13, 118-122.	1.3	29
31	Advances in the deposition chemistry of metal-containing thin films using gas phase processes. <i>Chemical Science</i> , 2012, 3, 929-941.	7.4	29
32	Enabling Full Conversion Reaction with High Reversibility to Approach Theoretical Capacity for Sodium Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1906680.	14.9	29
33	Chemical vapor deposition and electric characterization of perovskite oxides LaMO <sub>3</sub> (M=Co, Fe, Cr and Tj) <a href="#">ETQq1 1,0,784314 rgBT /Ove</a>	2.9	28
34	CVD with Tri-nbutylphosphine Silver(I) Complexes: Mass Spectrometric Investigations and Depositions. <i>Chemical Vapor Deposition</i> , 2005, 11, 195-205.	1.3	26
35	Alcohol-Assisted CVD of Silver Using Commercially Available Precursors. <i>Chemical Vapor Deposition</i> , 2007, 13, 401-407.	1.3	26
36	Rational Design of Functional Oxide Thin Films with Embedded Magnetic or Plasmonic Metallic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9957-9960.	13.8	25

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37	Preparation and characterisation of chromium-doped cobalt oxide spinel thin films. Journal of Materials Science, 2012, 47, 1348-1353.	3.7	24
38	Atomic layer deposition of cobalt carbide films and their magnetic properties using propanol as a reducing agent. Applied Surface Science, 2016, 379, 523-529.	6.1	23
39	Abnormal behaviors in electrical transport properties of cobalt-doped tin oxide thin films. Journal of Materials Chemistry, 2012, 22, 16060.	6.7	22
40	Multilayer composites in Al <sub>2</sub> O <sub>3</sub> /MoSi <sub>2</sub> system. Materials Chemistry and Physics, 2001, 67, 256-262.	4.0	21
41	Noncatalytic thermocouple coatings produced with chemical vapor deposition for flame temperature measurements. Review of Scientific Instruments, 2007, 78, 013905.	1.3	21
42	Effect of Moisture on the High-Temperature Stability of Unidirectionally Solidified Al <sub>2</sub> O <sub>3</sub> /YAG Eutectic Composites. Journal of the American Ceramic Society, 2000, 83, 3077-3081.	3.8	20
43	Self-catalyzed chemical vapor deposition method for the growth of device-quality metal thin films. Microelectronic Engineering, 2007, 84, 2481-2485.	2.4	20
44	CO and ethanol oxidation over LaCoO <sub>3</sub> planar model catalysts: Effect of the thickness. Catalysis Communications, 2011, 12, 1344-1350.	3.3	20
45	Tunable thermochromic properties of V <sub>2</sub> O <sub>5</sub> coatings. Materials Today Physics, 2017, 2, 1-5.	6.0	20
46	Study of VO <sub>2</sub> thin film synthesis by atomic layer deposition. Materials Today Chemistry, 2019, 12, 332-342.	3.5	20
47	Catalytically enhanced H <sub>2</sub> -free CVD of transition metals using commercially available precursors. Surface and Coatings Technology, 2007, 201, 8914-8918.	4.8	18
48	Unusual enhancement in electrical conductivity of tin oxide thin films with zinc doping. Physical Chemistry Chemical Physics, 2011, 13, 5760.	2.8	18
49	CVD of Ru, Pt and Pt-based alloy thin films using ethanol as mild reducing agent. Materials Chemistry and Physics, 2011, 125, 757-762.	4.0	17
50	A high-temperature oxidation-resistant coating, for graphite, prepared by atmospheric pressure chemical vapor deposition. Thin Solid Films, 2001, 394, 297-302.	1.8	16
51	Mass-spectrometric monitoring of the thermally induced decomposition of trimethylgallium, tris( <i>tert</i> -butyl)gallium, and triethylantimony at low pressure conditions. Journal of the American Society for Mass Spectrometry, 2008, 19, 947-954.	2.8	15
52	CVD of Conducting Ultrathin Copper Films. Journal of the Electrochemical Society, 2009, 156, D452.	2.9	15
53	Low-Temperature Thermal CVD of Superblack Carbon Nanotube Coatings. Advanced Materials Interfaces, 2017, 4, 1700238.	3.7	15
54	SiO <sub>2</sub> thin film growth through a pure atomic layer deposition technique at room temperature. RSC Advances, 2020, 10, 18073-18081.	3.6	15

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55	Synthesis of vanadium oxide films with controlled morphologies: Impact on the metal-insulator transition behaviour. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1582-1587.	1.8	14
56	Systematic microstructural investigation of alumina deposited by liquid fuel combustion chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2006, 200, 4097-4103.	4.8	13
57	Molecular layer deposition of amine-containing alucone thin films. <i>Surface and Coatings Technology</i> , 2013, 230, 101-105.	4.8	11
58	Towards biofuel combustion with an easily extruded clay as a natural catalyst. <i>Applied Energy</i> , 2013, 107, 149-156.	10.1	11
59	Broadband characterization of congruent lithium niobate from mHz to optical frequencies. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 36LT01.	2.8	11
60	Effect of Nucleation and Growth Kinetics on the Electrical and Optical Properties of Undoped ZnO Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5121-5125.	3.1	10
61	Thermal Conversion of Ethanol into Carbon Nanotube Coatings with Adjusted Packing Density. <i>ACS Omega</i> , 2019, 4, 10405-10410.	3.5	10
62	Low-Temperature Thermolysis Behavior of Tetramethyl- and Tetraethyldistibines. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1336-1342.	2.8	8
63	Thermoresponsive Black VO <sub>2</sub> @Carbon Nanotube Composite Coatings for Solar Energy Harvesting. <i>ACS Applied Nano Materials</i> , 2020, 3, 8848-8857.	5.0	8
64	CNT-ZnO Core-Shell Photoanodes for Photoelectrochemical Water Splitting. <i>Coatings</i> , 2022, 12, 47.	2.6	8
65	Investigation of CVD Processes to Perform Dense $\gamma$ -Alumina Coating on Superalloys. <i>Journal of the Electrochemical Society</i> , 2004, 151, C182.	2.9	7
66	Innovative CNT-based composite coatings for the stray light reduction. , 2017, , .		7
67	Single source precursor-based HV-MOCVD deposition of binary group 13-antimonide thin films. <i>Surface and Coatings Technology</i> , 2007, 201, 9071-9075.	4.8	6
68	Application of nBu <sub>2</sub> Sn(acac) <sub>2</sub> for the deposition of nanocrystallite SnO <sub>2</sub> films: Nucleation, growth and physical properties. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7798-7802.	5.5	6
69	Light modulation in phase change disordered metamaterial - A smart cermet concept. <i>Materials Today Physics</i> , 2017, 3, 41-47.	6.0	6
70	Structure, Electrical Properties, and Surface Reactivity of CVD-Made Functional Complex Oxides. <i>Journal of the Electrochemical Society</i> , 2010, 157, D16.	2.9	5
71	CNT nanoengineering for thermally stable selective solar absorption. <i>Materials Today Communications</i> , 2021, 28, 102552.	1.9	4
72	Chemical vapor deposition of CoFe <sub>2</sub> O <sub>4</sub> micropillar arrays with enhanced magnetic properties. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161758.	5.5	4

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73	Investigation of Growth, Structural and Optical Properties of CeO <sub>2</sub> Nanocrystalline Thin Films Prepared by Pulsed Spray-Evaporation Chemical Vapor Deposition (PSE-CVD). Nanoscience and Nanotechnology Letters, 2009, 1, 134-139.	0.4	3
74	Unusual two-dimensional electrical charge transport at the surface of polycrystalline perovskite ultrathin films. Journal of Applied Physics, 2009, 106, 073714.	2.5	3
75	The growth of nanoscale ZnO films by pulsed-spray evaporation chemical vapor deposition and their structural, electric and optical properties. Thin Solid Films, 2010, 519, 284-288.	1.8	3
76	Thermal Chemical Vapor Deposition of Superblack Randomly Oriented Carbon Nanotube Coatings. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900704.	1.8	3
77	CNT@TiO <sub>2</sub> core-shell structure: synthesis and photoelectrochemical characterization. RSC Advances, 2021, 11, 33169-33178.	3.6	3
78	Pulsed Spray Evaporation CVD of Functional Complex Oxides: Interplay between the Structure, Electrical Properties and Surface Reactivity. ECS Transactions, 2009, 25, 265-272.	0.5	2
79	Optical and morphological properties of thermochromic V <sub>2</sub> O <sub>5</sub> coatings. Data in Brief, 2017, 14, 348-353.	1.0	2
80	Improvement of High Temperature Corrosion Resistance of Carbon by Ceramic Oxides Coats. Ceramic Engineering and Science Proceedings, 0, , 691-698.	0.1	2
81	Gas Phase Synthesis of Metal Oxide Monolithic Catalysts for Hydrocarbon Deep Oxidation. Studies in Surface Science and Catalysis, 2006, 162, 625-632.	1.5	1
82	Vanadium Oxide as a Key Constituent in Reconfigurable Metamaterials. , 2019, , .		1
83	Structural Investigation of Alumina Thin Films Deposited by Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 2002, 750, 1.	0.1	0
84	Functional Complex Oxides: Interplay between the Structure, Electrical Properties and Surface Reactivity. ECS Meeting Abstracts, 2009, , .	0.0	0
85	&lt;/&gt;A Special Section on&lt;/&gt; Nanocomposites: Synthesis and Optical Related Applications. Journal of Nanoscience and Nanotechnology, 2016, 16, 10067-10068.	0.9	0
86	Thermal Chemical Vapor Deposition of Superblack Randomly Oriented Carbon Nanotube Coatings. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2070032.	1.8	0
87	Apport des techniques XRFs et LEEIXS à l'étude de la formation de films de silice sur acier par PACVD. European Physical Journal Special Topics, 1998, 08, Pr5-271-Pr5-278.	0.2	0
88	Spectroscopic and mechanical studies of RF plasma-polymerized films deposited at low temperature from organosilane precursors. , 2020, , 237-262.		0