Michael Bechelany

List of Publications by Year
in descending order

307 papers	15,065 citations	16791 66 h-index	33145 104 g-index
311 all docs	311 docs citations	311 times ranked	18844 citing authors

#	Article	IF	Citations
1	Diamond protection for reusable ZnO coated fiber-optic measurement head in optoelectrochemical investigation of bisphenol A. Measurement: Journal of the International Measurement Confederation, 2022, 189, 110495.	2.5	4
2	Nanocelluloses as skin biocompatible materials for skincare, cosmetics, and healthcare: Formulations, regulations, and emerging applications. Carbohydrate Polymers, 2022, 278, 118956.	5.1	60
3	Review on Natural, Incidental, Bioinspired, and Engineered Nanomaterials: History, Definitions, Classifications, Synthesis, Properties, Market, Toxicities, Risks, and Regulations. Nanomaterials, 2022, 12, 177.	1.9	123
4	Investigation of fine activated carbon as a viable flow electrode in capacitive deionization. Desalination, 2022, 525, 115500.	4.0	35
5	Review on Nanoparticles and Nanostructured Materials: Bioimaging, Biosensing, Drug Delivery, Tissue Engineering, Antimicrobial, and Agro-Food Applications. Nanomaterials, 2022, 12, 457.	1.9	200
6	Tunable TiO₂â€“BNâ€“Pd nanofibers by combining electrospinning and atomic layer deposition to enhance photodegradation of acetaminophen. Dalton Transactions, 2022, 51, 2674-2695.	1.6	31
7	Nanofabrication and Nanomanufacturing. Nanomaterials, 2022, 12, 458.	1.9	0
8	Design and Manufacturing of Si-Based Non-Oxide Cellular Ceramic Structures through Indirect 3D Printing. Materials, 2022, 15, 471.	1.3	12
9	Magnetotransport Studies of Encapsulated Topological Insulator Bi2Se3 Nanoribbons. Nanomaterials, 2022, 12, 768.	1.9	2
10	Recent Advances in Green Synthesis of Ag NPs for Extenuating Antimicrobial Resistance. Nanomaterials, 2022, 12, 1115.	1.9	42
11	MXene nanoflakes decorating ZnO tetrapods for enhanced performance of skin-attachable stretchable enzymatic electrochemical glucose sensor. Biosensors and Bioelectronics, 2022, 207, 114141.	5.3	76
12	Superior efficiency of BN/Ce2O3/TiO2 nanofibers for photocatalytic hydrogen generation reactions. Applied Surface Science, 2022, 594, 153438.	3.1	18
13	Fabrication of Radio-Opaque and Macroporous Injectable Calcium Phosphate Cement. ACS Applied Bio Materials, 2022, 5, 3075-3085.	2.3	3
14	Design of halloysite-based nanocomposites by electrospinning for water treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129696.	2.3	19
15	Atomic layer deposition of transition metal films and nanostructures for electronic and catalytic applications. Critical Reviews in Solid State and Materials Sciences, 2021, 46, 468-489.	6.8	12
16	Photoluminescence label-free immunosensor for the detection of Aflatoxin B1 using polyacrylonitrile/zinc oxide nanofibers. Materials Science and Engineering C, 2021, 118, 111401.	3.8	51
17	Atomic layer deposition of palladium coated TiO2/Si nanopillars: ToF-SIMS, AES and XPS characterization study. Applied Surface Science, 2021, 542, 148603.	3.1	39
18	Coaxial nanofibers of nickel/gadolinium oxide/nickel oxide as highly effective electrocatalysts for hydrogen evolution reaction. Journal of Colloid and Interface Science, 2021, 587, 457-466.	5.0	47

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19	Thickness-dependent properties of ultrathinÂbismuth and antimony chalcogenide films formed by physical vapor deposition and their application in thermoelectric generators. Materials Today Energy, 2021, 19, 100587.	2.5	22
20	Fabrication of 3D printed antimicrobial polycaprolactone scaffolds for tissue engineering applications. Materials Science and Engineering C, 2021, 118, 111525.	3.8	90
21	Total internal reflection ellipsometry for kinetics-based assessment of bovine serum albumin immobilization on ZnO nanowires. Journal of Materials Chemistry C, 2021, 9, 1345-1352.	2.7	18
22	Simultaneous hydrogen and oxygen evolution reactions using free-standing nitrogen-doped-carbonâ€“Co/CoO‹sub›‹i›x‹/i›‹/sub› nanofiber electrodes decorated with palladium nanoparticles. Journal of Materials Chemistry A, 2021, 9, 17724-17739.	5.2	41
23	Multifunctional Hydroxyapatite/Silver Nanoparticles/Cotton Gauze for Antimicrobial and Biomedical Applications. Nanomaterials, 2021, 11, 429.	1.9	44
24	Activated Carbon Blended with Reduced Graphene Oxide Nanoflakes for Capacitive Deionization. Nanomaterials, 2021, 11, 1090.	1.9	10
25	Polyvinyl Chloride Modified Carbon Paste Electrodes for Sensitive Determination of Levofloxacin Drug in Serum, Urine, and Pharmaceutical Formulations. Sensors, 2021, 21, 3150.	2.1	23
26	Visible Photoluminescence of Variable-Length Zinc Oxide Nanorods Embedded in Porous Anodic Alumina Template for Biosensor Applications. Coatings, 2021, 11, 756.	1.2	6
27	Sacrificial mold-assisted 3D printing of stable biocompatible gelatin scaffolds. Bioprinting, 2021, 22, e00140.	2.9	17
28	Optical-Fiber Microsphere-Based Temperature Sensors with ZnO ALD Coatingâ€”Comparative Study. Sensors, 2021, 21, 4982.	2.1	0
29	A Robust and Highly Precise Alternative against the Proliferation of Intestinal Carcinoma and Human Hepatocellular Carcinoma Cells Based on Lanthanum Strontium Manganite Nanoparticles. Materials, 2021, 14, 4979.	1.3	3
30	High-Yield Growth and Tunable Morphology of Bi2Se3 Nanoribbons Synthesized on Thermally Dewetted Au. Nanomaterials, 2021, 11, 2020.	1.9	4
31	Exploring the effect of BN and B-N bridges on the photocatalytic performance of semiconductor heterojunctions: Enhancing carrier transfer mechanism. Applied Materials Today, 2021, 24, 101095.	2.3	5
32	Microsphere structure application for supercapacitor in situ temperature monitoring. Smart Materials and Structures, 2021, 30, 10LT01.	1.8	3
33	Fe-Modified Pd as an Effective Multifunctional Electrocatalyst for Catalytic Oxygen Reduction and Glycerol Oxidation Reactions in Alkaline Media. ACS Applied Energy Materials, 2021, 4, 9944-9960.	2.5	14
34	Photoelectrocatalysis of paracetamol on Pdâ€“ZnO/ N-doped carbon nanofibers electrode. Applied Materials Today, 2021, 24, 101129.	2.3	26
35	Humidity-resistant gas sensors based on SnO2 nanowires coated with a porous alumina nanomembrane by molecular layer deposition. Sensors and Actuators B: Chemical, 2021, 344, 130302.	4.0	32
36	Elaboration of porous alumina nanofibers by electrospinning and molecular layer deposition for organic pollutant removal. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127274.	2.3	13

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37	Functionalized Electrochemical Aptasensor for Sensing of Ochratoxin A in Cereals Supported byin SilicoAdsorption Studies. ACS Food Science & Technology, 2021, 1, 1849-1860.	1.3	2
38	3D Self-Supported Nitrogen-Doped Carbon Nanofiber Electrodes Incorporated Co/CoOx Nanoparticles: Application to Dyes Degradation by Electro-Fenton-Based Process. Nanomaterials, 2021, 11, 2686.	1.9	17
39	Biomedical Applications of Carbon Nanomaterials: Fullerenes, Quantum Dots, Nanotubes, Nanofibers, and Graphene. Materials, 2021, 14, 5978.	1.3	97
40	Assembled Au/ZnO Nano-Urchins for SERS Sensing of the Pesticide Thiram. Nanomaterials, 2021, 11, .	1.9	2
41	Synthesis and Characterization of Activated Carbon Co-Mixed Electrospun Titanium Oxide Nanofibers as Flow Electrode in Capacitive Deionization. Materials, 2021, 14, 6891.	1.3	5
42	Nanocellulose-Based Materials for Water Treatment: Adsorption, Photocatalytic Degradation, Disinfection, Antifouling, and Nanofiltration. Nanomaterials, 2021, 11, 3008.	1.9	63
43	Assembled Au/ZnO Nano-Urchins for SERS Sensing of the Pesticide Thiram. Nanomaterials, 2021, 11, 2174.	1.9	24
44	Combining nanoparticles grown by ALD and MOFs for gas separation and catalysis applications. Pure and Applied Chemistry, 2020, 92, 213-222.	0.9	11
45	Sodium-assisted TiO2 nanotube arrays of novel electrodes for photochemical sensing platform. Organic Electronics, 2020, 76, 105443.	1.4	27
46	Achieving exceedingly constructional characterization of magnesia-yttria (MgO-Y2O3) nanocomposite obtained via oxalate precursor strategy. Measurement: Journal of the International Measurement Confederation, 2020, 150, 106888.	2.5	10
47	Response Surface Methodology Optimization of Mono-dispersed MgO Nanoparticles Fabricated by Ultrasonic-Assisted Solâ€“Gel Method for Outstanding Antimicrobial and Antibiofilm Activities. Journal of Cluster Science, 2020, 31, 367-389.	1.7	106
48	Highly textured boron/nitrogen co-doped TiO2 with honeycomb structure showing enhanced visible-light photoelectrocatalytic activity. Applied Surface Science, 2020, 505, 144419.	3.1	38
49	Development of new biocompatible 3D printed graphene oxide-based scaffolds. Materials Science and Engineering C, 2020, 110, 110595.	3.8	103
50	Hydrogen selective palladium-alumina composite membranes prepared by Atomic Layer Deposition. Journal of Membrane Science, 2020, 596, 117701.	4.1	29
51	Enhancing photocatalytic performance and solar absorption by schottky nanodiodes heterojunctions in mechanically resilient palladium coated TiO2/Si nanopillars by atomic layer deposition. Chemical Engineering Journal, 2020, 392, 123702.	6.6	32
52	Highly-efficient electrochemical label-free immunosensor for the detection of ochratoxin A in coffee samples. Sensors and Actuators B: Chemical, 2020, 305, 127438.	4.0	49
53	Coupling cathodic electro-fenton with anodic photo-electrochemical oxidation: A feasibility study on the mineralization of paracetamol. Journal of Environmental Chemical Engineering, 2020, 8, 104394.	3.3	60
54	Plant celluloses, hemicelluloses, lignins, and volatile oils for the synthesis of nanoparticles and nanostructured materials. Nanoscale, 2020, 12, 22845-22890.	2.8	108

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55	Nanostructured boron nitrideâ€“based materials: synthesis and applications. Materials Today Advances, 2020, 8, 100107.	2.5	46
56	Porous Gelatin Membranes Obtained from Pickering Emulsions Stabilized with h-BNNS: Application for Polyelectrolyte-Enhanced Ultrafiltration. Membranes, 2020, 10, 144.	1.4	7
57	Enhancement of calcium copper titanium oxide photoelectrochemical performance using boron nitride nanosheets. Chemical Engineering Journal, 2020, 389, 124326.	6.6	48
58	Comparative Investigation of Activated Carbon Electrode and a Novel Activated Carbon/Graphene Oxide Composite Electrode for an Enhanced Capacitive Deionization. Materials, 2020, 13, 5185.	1.3	26
59	ZnO ALD-Coated Microsphere-Based Sensors for Temperature Measurements. Sensors, 2020, 20, 4689.	2.1	7
60	Investigation of polymer-derived Siâ€“(B)â€“Câ€“N ceramic/reduced graphene oxide composite systems as active catalysts towards the hydrogen evolution reaction. Scientific Reports, 2020, 10, 22003.	1.6	24
61	Microscale diamond protection for a ZnO coated fiber optic sensor. Scientific Reports, 2020, 10, 19141.	1.6	7
62	Enhancement of Podocyte Attachment on Polyacrylamide Hydrogels with Gelatin-Based Polymers. ACS Applied Bio Materials, 2020, 3, 7531-7539.	2.3	8
63	Towards Electrochemical Water Desalination Techniques: A Review on Capacitive Deionization, Membrane Capacitive Deionization and Flow Capacitive Deionization. Membranes, 2020, 10, 96.	1.4	66
64	Functionalization of 3D printed ABS filters with MOF for toxic gas removal. Journal of Industrial and Engineering Chemistry, 2020, 89, 194-203.	2.9	29
65	Metagenomics Meets Electrochemistry: Utilizing the Huge Catalytic Potential From the Uncultured Microbial Majority for Energy-Storage. Frontiers in Bioengineering and Biotechnology, 2020, 8, 567.	2.0	6
66	Boron Nitride Based Nanobiocomposites: Design by 3D Printing for Bone Tissue Engineering. ACS Applied Bio Materials, 2020, 3, 1865-1874.	2.3	42
67	Highly efficient and stable FeIIFeIII LDH carbon felt cathode for removal of pharmaceutical ofloxacin at neutral pH. Journal of Hazardous Materials, 2020, 393, 122513.	6.5	107
68	Morphology, Rheology and Crystallization in Relation to the Viscosity Ratio of Polystyrene/Polypropylene Polymer Blends. Materials, 2020, 13, 926.	1.3	24
69	Current Trends in Pickering Emulsions: Particle Morphology and Applications. Engineering, 2020, 6, 468-482.	3.2	266
70	Atomic layer deposition of Pd nanoparticles on self-supported carbon-Ni/NiO-Pd nanofiber electrodes for electrochemical hydrogen and oxygen evolution reactions. Journal of Colloid and Interface Science, 2020, 569, 286-297.	5.0	68
71	Palladium/Carbon Nanofibers by Combining Atomic Layer Deposition and Electrospinning for Organic Pollutant Degradation. Materials, 2020, 13, 1947.	1.3	20
72	Photoluminescence Study of Defects in ZnO-Coated Polyacrylonitrile Nanofibers. Journal of Physical Chemistry C, 2020, 124, 9434-9441.	1.5	37

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73	Segregation of copper oxide on calcium copper titanate surface induced by Graphene Oxide for Water splitting applications. Applied Surface Science, 2020, 516, 146051.	3.1	31
74	Nanofibers as new-generation materials: From spinning and nano-spinning fabrication techniques to emerging applications. Applied Materials Today, 2019, 17, 1-35.	2.3	296
75	Influence of Hydrolyzed Polyacrylamide Hydrogel Stiffness on Podocyte Morphology, Phenotype, and Mechanical Properties. ACS Applied Materials & Interfaces, 2019, 11, 32623-32632.	4.0	32
76	Surface structure promoted high-yield growth and magnetotransport properties of Bi2Se3 nanoribbons. Scientific Reports, 2019, 9, 11328.	1.6	9
77	Catalytic electrospun nano-composite membranes for virus capture and remediation. Separation and Purification Technology, 2019, 229, 115806.	3.9	36
78	From Synthesis to Applications: Copper Calcium Titanate (CCTO) and its Magnetic and Photocatalytic Properties. ChemistryOpen, 2019, 8, 922-950.	0.9	34
79	Atomic layer deposition (ALD) on inorganic or polymeric membranes. Journal of Applied Physics, 2019, 126, .	1.1	36
80	Electrochemical advanced oxidation processes using novel electrode materials for mineralization and biodegradability enhancement of nanofiltration concentrate of landfill leachates. Water Research, 2019, 162, 446-455.	5.3	121
81	Impregnation Protocols on Alumina Beads for Controlling the Preparation of Supported Metal Catalysts. Catalysts, 2019, 9, 577.	1.6	6
82	Nanofibrous Scaffolds for Tissue Engineering Application. , 2019, , 665-691.		0
83	Enhanced electrocatalytic performance triggered by atomically bridged boron nitride between palladium nanoparticles and carbon fibers in gas-diffusion electrodes. Applied Catalysis B: Environmental, 2019, 257, 117917.	10.8	41
84	Toner Waste Powder (TWP) as a Filler for Polymer Blends (LDPE/HIPS) for Enhanced Electrical Conductivity. Materials, 2019, 12, 3062.	1.3	17
85	Structure and Doping Determined Thermoelectric Properties of Bi₂Se₃Thin Films Deposited by Vapourâ€“Solid Technique. IEEE Nanotechnology Magazine, 2019, 18, 948-954.	1.1	24
86	On the Use of MOFs and ALD Layers as Nanomembranes for the Enhancement of Gas Sensors Selectivity. Nanomaterials, 2019, 9, 1552.	1.9	11
87	Enhanced sieving from exfoliated MoS2 membranes via covalent functionalization. Nature Materials, 2019, 18, 1112-1117.	13.3	196
88	ZnO coated fiber optic microsphere sensor for the enhanced refractive index sensing. Sensors and Actuators A: Physical, 2019, 298, 111594.	2.0	12
89	Overview of Proteinâ€Based Biopolymers for Biomedical Application. Macromolecular Chemistry and Physics, 2019, 220, 1900126.	1.1	50
90	Hybrid graphene-decorated metal hollow fibre membrane reactors for efficient electro-Fenton - Filtration co-processes. Journal of Membrane Science, 2019, 587, 117182.	4.1	45

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91	Nanofiber Technologies: History and Development. , 2019, , 3-43.		6
92	Role of Sulfur Vacancies and Undercoordinated Mo Regions in MoS₂ Nanosheets toward the Evolution of Hydrogen. ACS Nano, 2019, 13, 6824-6834.	7.3	402
93	Anomalous dielectric constant value of graphene oxide/Polyvinyl alcohol thin film. Solid State Sciences, 2019, 94, 28-34.	1.5	15
94	Fe-Nanoporous Carbon Derived from MIL-53(Fe): A Heterogeneous Catalyst for Mineralization of Organic Pollutants. Nanomaterials, 2019, 9, 641.	1.9	31
95	Efficient nanoparticles removal and bactericidal action of electrospun nanofibers membranes for air filtration. Materials Science and Engineering C, 2019, 102, 718-729.	3.8	151
96	BN/GdxTi(1-x)O(4-x)/2 nanofibers for enhanced photocatalytic hydrogen production under visible light. Applied Catalysis B: Environmental, 2019, 251, 76-86.	10.8	73
97	Highly efficient hydrogen sensors based on Pd nanoparticles supported on boron nitride coated ZnO nanowires. Journal of Materials Chemistry A, 2019, 7, 8107-8116.	5.2	114
98	Effect of graphene substrate type on formation of Bi2Se3 nanoplates. Scientific Reports, 2019, 9, 4791.	1.6	16
99	Preparation and Characterization of Microsphere ZnO ALD Coating Dedicated for the Fiber-Optic Refractive Index Sensor. Nanomaterials, 2019, 9, 306.	1.9	22
100	Fabrication of Pd-TiO2 nanotube photoactive junctions via Atomic Layer Deposition for persistent pesticide pollutants degradation. Applied Surface Science, 2019, 483, 219-230.	3.1	38
101	Carbonâ€based Nanosensors for Salicylate Determination in Pharmaceutical Preparations. Electroanalysis, 2019, 31, 778-789.	1.5	17
102	Nanofibers for Biomedical and Healthcare Applications. Macromolecular Bioscience, 2019, 19, e1800256.	2.1	187
103	Fracture Mechanics and Oxygen Gas Barrier Properties of Al2O3/ZnO Nanolaminates on PET Deposited by Atomic Layer Deposition. Nanomaterials, 2019, 9, 88.	1.9	42
104	Resistive gas sensors based on metal-oxide nanowires. Journal of Applied Physics, 2019, 126, .	1.1	148
105	Enhanced visible light photocatalysis by TiO2â€“BN enabled electrospinning of nanofibers for pharmaceutical degradation and wastewater treatment. Photochemical and Photobiological Sciences, 2019, 18, 2921-2930.	1.6	20
106	Au-covered hollow urchin-like ZnO nanostructures for surface-enhanced Raman scattering sensing. Journal of Materials Chemistry C, 2019, 7, 15066-15073.	2.7	50
107	Improved Crystalline Structure and Enhanced Photoluminescence of ZnO Nanolayers in Bi₂Se₃/ZnO Heterostructures. Journal of Physical Chemistry C, 2019, 123, 31156-31166.	1.5	7
108	Composites Based on Nanoparticle and Pan Electrospun Nanofiber Membranes for Air Filtration and Bacterial Removal. Nanomaterials, 2019, 9, 1740.	1.9	80

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109	Pickering emulsions stabilized with two-dimensional (2D) materials: A comparative study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 563, 183-192.	2.3	12
110	Adsorption and photocatalytic oxidation of ibuprofen using nanocomposites of TiO2 nanofibers combined with BN nanosheets: Degradation products and mechanisms. Chemosphere, 2019, 220, 921-929.	4.2	97
111	Application of Fe-MFI zeolite catalyst in heterogeneous electro-Fenton process for water pollutants abatement. Microporous and Mesoporous Materials, 2019, 278, 64-69.	2.2	36
112	Natural payload delivery of the doxorubicin anticancer drug from boron nitride oxide nanosheets. Applied Surface Science, 2019, 475, 666-675.	3.1	42
113	Electrospun Nanofibers for Drug Delivery in Regenerative Medicine. , 2019, , 595-625.		11
114	Development of poly(3â€hydroxybutyrateâ€coâ€3â€hydroxyvalerate)/boron nitride bionanocomposites with enhanced barrier properties. Polymer Composites, 2019, 40, 78-90.	2.3	17
115	Impact of Polyelectrolyte Multilayers on the Ionic Current Rectification of Conical Nanopores. Langmuir, 2018, 34, 3405-3412.	1.6	30
116	Analysis of ultraviolet photo-response of ZnO nanostructures prepared by electrodeposition and atomic layer deposition. Applied Surface Science, 2018, 444, 253-259.	3.1	20
117	Design and fabrication of highly selective H2 sensors based on SIM-1 nanomembrane-coated ZnO nanowires. Sensors and Actuators B: Chemical, 2018, 264, 410-418.	4.0	37
118	Unexpected ionic transport behavior in hydrophobic and uncharged conical nanopores. Faraday Discussions, 2018, 210, 69-85.	1.6	8
119	Elaboration of nano titania-magnetic reduced graphene oxide for degradation of tartrazine dye in aqueous solution. Solid State Sciences, 2018, 78, 116-125.	1.5	70
120	Electrochemical mineralization of sulfamethoxazole over wide pH range using FeIIFeIII LDH modified carbon felt cathode: Degradation pathway, toxicity and reusability of the modified cathode. Chemical Engineering Journal, 2018, 350, 844-855.	6.6	139
121	Influence of ZnO/graphene nanolaminate periodicity on their structural and mechanical properties. Journal of Materials Science and Technology, 2018, 34, 1487-1493.	5.6	20
122	PVC membrane, coated-wire, and carbon-paste ion-selective electrodes for potentiometric determination of galantamine hydrobromide in physiological fluids. Materials Science and Engineering C, 2018, 89, 140-148.	3.8	39
123	Amyloid Fibril Analysis using Single Nanopore. Biophysical Journal, 2018, 114, 181a.	0.2	0
124	Porous Gelatin Membrane Obtained from Pickering Emulsions Stabilized by Graphene Oxide. Langmuir, 2018, 34, 1542-1549.	1.6	28
125	High photodegradation and antibacterial activity of BNâ€“Ag/TiO₂ composite nanofibers under visible light. New Journal of Chemistry, 2018, 42, 1250-1259.	1.4	80
126	Enhanced Catalytic Glycerol Oxidation Activity Enabled by Activatedâ€Carbonâ€Supported Palladium Catalysts Prepared through Atomic Layer Deposition. ChemElectroChem, 2018, 5, 743-747.	1.7	27

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127	Novel and Facile Route for the Synthesis of Tunable Boron Nitride Nanotubes Combining Atomic Layer Deposition and Annealing Processes for Water Purification. Advanced Materials Interfaces, 2018, 5, 1800056.	1.9	45
128	Nano Fibrous Scaffolds for Tissue Engineering Application. , 2018, , 1-28.		1
129	An investigation of structure and electrical characteristics of lanthanum strontium manganite nanopowders with different Sr²⁺ ion concentrations. Particulate Science and Technology, 2018, 36, 873-877.	1.1	2
130	Fabrication of PMMA/ZnO nanocomposite: effect of high nanoparticles loading on the optical and thermal properties. Journal of Materials Science, 2018, 53, 1911-1921.	1.7	53
131	Optical and structural properties of Al 2 O 3 doped ZnO nanotubes prepared by ALD and their photocatalytic application. Surface and Coatings Technology, 2018, 343, 24-29.	2.2	21
132	Tunable investigation optical, electrical and magnetic behaviors of Gd3+ substituted lanthanum strontium manganite La0.5-x Sr0.5GdxMnO3 nanopowders facilely synthesized through citrate precursor technique. Journal of Alloys and Compounds, 2018, 735, 2175-2181.	2.8	17
133	Synthesis of mesoporous core-shell CdS@TiO2 (0D and 1D) photocatalysts for solar-driven hydrogen fuel production. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 351, 261-270.	2.0	79
134	Structure-determined thermoelectric properties of Bi2Se3 thin films deposited by vapour-solid technique. , 2018, , .		3
135	Electrostatic force microscopy for the accurate characterization of interphases in nanocomposites. Beilstein Journal of Nanotechnology, 2018, 9, 2999-3012.	1.5	11
136	Optical Immunosensor Based on Nanostructured ZnO Thin Films for Agricultural Purposes. , 2018, , .		0
137	Nanodielectric model samples to assess the detectability of interphases with Electrostatic Force Microscopy. , 2018, , .		0
138	Nanodielectric model samples to assess the detectability of interphases with Electrostatic Force Microscopy. , 2018, , .		0
139	The Effect of Boron Nitride on the Thermal and Mechanical Properties of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate). Nanomaterials, 2018, 8, 940.	1.9	30
140	Optical properties of ZnO deposited by atomic layer deposition (ALD) on Si nanowires. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 236-237, 139-146.	1.7	19
141	Atomic Layer Deposition for Membranes: Basics, Challenges, and Opportunities. Chemistry of Materials, 2018, 30, 7368-7390.	3.2	133
142	Boron Nitride as a Novel Support for Highly Stable Palladium Nanocatalysts by Atomic Layer Deposition. Nanomaterials, 2018, 8, 849.	1.9	21
143	Atomic layer deposition for biosensing applications. Biosensors and Bioelectronics, 2018, 122, 147-159.	5.3	86
144	Exfoliation of Hexagonal Boron Nitride (h-BN) in Liquide Phase by Ion Intercalation. Nanomaterials, 2018, 8, 716.	1.9	72

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145	High-Performance Nanowire Hydrogen Sensors by Exploiting the Synergistic Effect of Pd Nanoparticles and Metalâ€“Organic Framework Membranes. ACS Applied Materials & Interfaces, 2018, 10, 34765-34773.	4.0	135
146	Enhanced Electro-Fenton Mineralization of Acid Orange 7 Using a Carbon Nanotube Fiber-Based Cathode. Frontiers in Materials, 2018, 5, .	1.2	7
147	Synthesis of Functional Ceramic Supports by Ice Templating and Atomic Layer Deposition. Frontiers in Materials, 2018, 5, .	1.2	1
148	Efficacious realization of Ba0.5Sr0.5TixM1â^'xO3 (Mâ€‰=â€‰Mn2+, Co2+) perovskite nanostructures through oxalate precursor strategy. Journal of Materials Science: Materials in Electronics, 2018, 29, 14582-14588.	1.1	8
149	Recent Progress on Titanium Dioxide Nanomaterials for Photocatalytic Applications. ChemSusChem, 2018, 11, 3023-3047.	3.6	243
150	Towards the application of Al₂O₃/ZnO nanolaminates in immunosensors: total internal reflection spectroscopic ellipsometry based evaluation of BSA immobilization. Journal of Materials Chemistry C, 2018, 6, 8778-8783.	2.7	35
151	Development of novel h-BNNS/PVA porous membranes via Pickering emulsion templating. Green Chemistry, 2018, 20, 4319-4329.	4.6	46
152	Design of Multilayers of Urchin-like ZnO Nanowires Coated with TiO₂Nanostructures for Dye-Sensitized Solar Cells. ACS Applied Nano Materials, 2018, 1, 3705-3714.	2.4	16
153	Nanolayers in Fiber-Optic Biosensing. , 2018, , 395-426.		3
154	Nanofiber Technology: History and Developments. , 2018, , 1-42.		11
155	A novel photoelectrode of NiO@ZnO nanocomposite prepared by Pechini method coupled with PLD for efficiency enhancement in DSSCs. Materials Science-Poland, 2018, 36, 327-336.	0.4	8
156	Optical, electrical and magnetic properties of lanthanum strontium manganite La_{1â^'x}Sr_xMnO₃ synthesized through the citrate combustion method. Physical Chemistry Chemical Physics, 2017, 19, 6878-6886.	1.3	55
157	Optimal direct electron transfer between MWCNTs@COOH/BOD/chitosan layer and porous carbon felt for dioxygen reduction. Electrochimica Acta, 2017, 230, 373-381.	2.6	6
158	Urchin-inspired ZnO-TiO2 core-shell as building blocks for dye sensitized solar cells. Materials and Design, 2017, 126, 314-321.	3.3	20
159	A comprehensive study on the influence of the polyorganosilazane chemistry and material shape on the high temperature behavior of titanium nitride/silicon nitride nanocomposites. Journal of the European Ceramic Society, 2017, 37, 5167-5175.	2.8	21
160	Enhanced UV photosensing properties of ZnO nanowires prepared by electrodeposition and atomic layer deposition. Journal of Solid State Electrochemistry, 2017, 21, 2877-2886.	1.2	4
161	Boron Nitride Nanoporous Membranes with High Surface Charge by Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 16669-16678.	4.0	83
162	Surfactant- and Binder-Free Hierarchical Platinum Nanoarrays Directly Grown onto a Carbon Felt Electrode for Efficient Electrocatalysis. ACS Applied Materials & Interfaces, 2017, 9, 22476-22489.	4.0	25

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163	Structure and antibacterial activity relationships of native and amyloid fibril lysozyme loaded on layered double hydroxide. Colloids and Surfaces B: Biointerfaces, 2017, 157, 10-17.	2.5	32
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