Michael Bechelany

List of Publications by Year
in descending order

307	15,065	14614 66	29081 104
papers	citations	h-index	g-index

311	311	311	16646
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomic Layer Deposition of Nanostructured Materials for Energy and Environmental Applications. Advanced Materials, 2012, 24, 1017-1032.	11.1	516
2	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
3	MOF-Based Membrane Encapsulated ZnO Nanowires for Enhanced Gas Sensor Selectivity. ACS Applied Materials & Interfaces, 2016, 8, 8323-8328.	4.0	346
4	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
5	Current Trends in Pickering Emulsions: Particle Morphology and Applications. Engineering, 2020, 6, 468-482.	3.2	266
6	Carbon felt based-electrodes for energy and environmental applications: A review. Carbon, 2017, 122, 564-591.	5.4	261
7	Optical biosensors based on ZnO nanostructures: advantages and perspectives. A review. Sensors and Actuators B: Chemical, 2016, 229, 664-677.	4.0	253
8	Recent Progress on Titanium Dioxide Nanomaterials for Photocatalytic Applications. ChemSusChem, 2018, 11, 3023-3047.	3.6	243
9	A hierarchical CoFe-layered double hydroxide modified carbon-felt cathode for heterogeneous electro-Fenton process. Journal of Materials Chemistry A, 2017, 5, 3655-3666.	5.2	237
10	High removal efficiency of dye pollutants by electron-Fenton process using a graphene based cathode. Carbon, 2015, 94, 1003-1011.	5.4	232
11	A Review of Gold and Silver Nanoparticleâ€Based Colorimetric Sensing Assays. Advanced Engineering Materials, 2017, 19, 1700270.	1.6	214
12	Review on Nanoparticles and Nanostructured Materials: Bioimaging, Biosensing, Drug Delivery, Tissue Engineering, Antimicrobial, and Agro-Food Applications. Nanomaterials, 2022, 12, 457.	1.9	200
13	Enhanced sieving from exfoliated MoS2 membranes via covalent functionalization. Nature Materials, 2019, 18, 1112-1117.	13.3	196
14	Nanofibers for Biomedical and Healthcare Applications. Macromolecular Bioscience, 2019, 19, e1800256.	2.1	187
15	Hollow Urchinâ€like ZnO thin Films by Electrochemical Deposition. Advanced Materials, 2010, 22, 1607-1612.	11.1	175
16	A Raman Spectroscopy Study of Individual SiC Nanowires. Advanced Functional Materials, 2007, 17, 939-943.	7.8	168
17	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
18	Resistive gas sensors based on metal-oxide nanowires. Journal of Applied Physics, 2019, 126, .	1.1	148

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19	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
20	Design of Boron Nitride/Gelatin Electrospun Nanofibers for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2017, 9, 33695-33706.	4.0	135
21	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
22	Atomic Layer Deposition for Membranes: Basics, Challenges, and Opportunities. Chemistry of Materials, 2018, 30, 7368-7390.	3.2	133
23	Correlation between degradation pathway and toxicity of acetaminophen and its by-products by using the electro-Fenton process in aqueous media. Chemosphere, 2017, 172, 1-9.	4.2	127
24	Functionalization of single solid state nanopores to mimic biological ion channels: A review. Advances in Colloid and Interface Science, 2017, 250, 195-213.	7.0	125
25	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
26	Synthesis Mechanisms of Organized Gold Nanoparticles: Influence of Annealing Temperature and Atmosphere. Crystal Growth and Design, 2010, 10, 587-596.	1.4	122
27	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
28	Enhanced Visible-Light Photocatalytic Performance of Electrospun rGO/TiO₂ Composite Nanofibers. Journal of Physical Chemistry C, 2017, 121, 261-269.	1.5	119
29	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
30	Tuning Optical Properties of Al₂O₃/ZnO Nanolaminates Synthesized by Atomic Layer Deposition. Journal of Physical Chemistry C, 2014, 118, 3811-3819.	1.5	111
31	Plant celluloses, hemicelluloses, lignins, and volatile oils for the synthesis of nanoparticles and nanostructured materials. Nanoscale, 2020, 12, 22845-22890.	2.8	108
32	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
33	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
34	Development of new biocompatible 3D printed graphene oxide-based scaffolds. Materials Science and Engineering C, 2020, 110, 110595.	3.8	103
35	Facile Preparation of Porous Carbon Cathode to Eliminate Paracetamol in Aqueous Medium Using Electro-Fenton System. Electrochimica Acta, 2016, 188, 378-384.	2.6	102
36	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

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37	Biomedical Applications of Carbon Nanomaterials: Fullerenes, Quantum Dots, Nanotubes, Nanofibers, and Graphene. Materials, 2021, 14, 5978.	1.3	97
38	Potential of polyhydroxyalkanoate (PHA) polymers family as substitutes of petroleum based polymers for packaging applications and solutions brought by their composites to form barrier materials. Pure and Applied Chemistry, 2017, 89, 1841-1848.	0.9	96
39	Highly crystalline MOF-based materials grown on electrospun nanofibers. Nanoscale, 2015, 7, 5794-5802.	2.8	95
40	Toxicity removal assessments related to degradation pathways of azo dyes: Toward an optimization of Electro-Fenton treatment. Chemosphere, 2016, 161, 308-318.	4.2	95
41	ZnO 1D nanostructures designed by combining atomic layer deposition and electrospinning for UV sensor applications. Journal of Materials Chemistry A, 2014, 2, 20650-20658.	5.2	93
42	Evolution of microstructure and related optical properties of ZnO grown by atomic layer deposition. Beilstein Journal of Nanotechnology, 2013, 4, 690-698.	1.5	92
43	An innovative approach for the preparation of confined ZIF-8 membranes by conversion of ZnO ALD layers. Journal of Membrane Science, 2015, 475, 39-46.	4.1	92
44	New Silicon Architectures by Gold-Assisted Chemical Etching. ACS Applied Materials & Interfaces, 2011, 3, 3866-3873.	4.0	91
45	Fabrication of 3D printed antimicrobial polycaprolactone scaffolds for tissue engineering applications. Materials Science and Engineering C, 2021, 118, 111525.	3.8	90
46	Self-Oscillations in Field Emission Nanowire Mechanical Resonators:â€‰ A Nanometric dcâ^'ac Conversion. Nano Letters, 2007, 7, 2252-2257.	4.5	88
47	Mesoporous ZnFe₂O₄@TiO₂ Nanofibers Prepared by Electrospinning Coupled to PECVD as Highly Performing Photocatalytic Materials. Journal of Physical Chemistry C, 2017, 121, 24669-24677.	1.5	88
48	Enhancement of Electronic and Optical Properties of ZnO/Al₂O₃ Nanolaminate Coated Electrospun Nanofibers. Journal of Physical Chemistry C, 2016, 120, 5124-5132.	1.5	87
49	Atomic layer deposition for biosensing applications. Biosensors and Bioelectronics, 2018, 122, 147-159.	5.3	86
50	Boron Nitride Nanoporous Membranes with High Surface Charge by Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 16669-16678.	4.0	83
51	Continuous sensing of hydrogen peroxide and glucose via quenching of the UV and visible luminescence of ZnO nanoparticles. Mikrochimica Acta, 2015, 182, 1819-1826.	2.5	82
52	Very Long SiCâ€Based Coaxial Nanocables with Tunable Chemical Composition. Advanced Functional Materials, 2007, 17, 3251-3257.	7.8	80
53	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
54	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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55	Enhanced photocatalytic performance of novel electrospun BN/TiO₂ composite nanofibers. New Journal of Chemistry, 2017, 41, 81-89.	1.4	79
56	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
57	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
58	Tuning of Structural and Optical Properties of Graphene/ZnO Nanolaminates. Journal of Physical Chemistry C, 2016, 120, 23716-23725.	1.5	75
59	Synthesis of Boron Nitride Nanotubes by a Template-Assisted Polymer Thermolysis Process. Journal of Physical Chemistry C, 2007, 111, 13378-13384.	1.5	74
60	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
61	Ionic transport through sub-10â€‰nm diameter hydrophobic high-aspect ratio nanopores: experiment, theory and simulation. Scientific Reports, 2015, 5, 10135.	1.6	72
62	Exfoliation of Hexagonal Boron Nitride (h-BN) in Liquide Phase by Ion Intercalation. Nanomaterials, 2018, 8, 716.	1.9	72
63	Mechanical properties of SiC nanowires determined by scanning electron and field emission microscopies. Physical Review B, 2008, 77, .	1.1	71
64	A highly active based graphene cathode for the electro-fenton reaction. RSC Advances, 2015, 5, 42536-42539.	1.7	71
65	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
66	Enhanced electroactive properties of polyurethane films loaded with carbon-coated SiC nanowires. Journal Physics D: Applied Physics, 2009, 42, 055503.	1.3	68
67	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
68	Simple Synthetic Route for SERS-Active Gold Nanoparticles Substrate with Controlled Shape and Organization. Langmuir, 2010, 26, 14364-14371.	1.6	67
69	Tuning of ZnO 1D nanostructures by atomic layer deposition and electrospinning for optical gas sensor applications. Nanotechnology, 2015, 26, 105501.	1.3	67
70	Adsorption and photophysical properties of fluorescent dyes over montmorillonite and saponite modified by surfactant. Chemosphere, 2017, 184, 1355-1361.	4.2	67
71	Towards Electrochemical Water Desalination Techniques: A Review on Capacitive Deionization, Membrane Capacitive Deionization and Flow Capacitive Deionization. Membranes, 2020, 10, 96.	1.4	66
72	Review Article: Recommended reading list of early publications on atomic layer depositionâ€”Outcome of the â€œVirtual Project on the History of ALDâ€• Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	65

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73	Slow translocation of polynucleotides and their discrimination by Î±-hemolysin inside a single track-etched nanopore designed by atomic layer deposition. Nanoscale, 2013, 5, 9582.	2.8	64
74	High Spatial Resolution Time-of-Flight Secondary Ion Mass Spectrometry for the Masses: A Novel Orthogonal ToF FIB-SIMS Instrument withIn SituAFM. Advances in Materials Science and Engineering, 2012, 2012, 1-13.	1.0	63
75	The influence of localized plasmons on the optical properties of Au/ZnO nanostructures. Journal of Materials Chemistry C, 2015, 3, 6815-6821.	2.7	63
76	Nanocellulose-Based Materials for Water Treatment: Adsorption, Photocatalytic Degradation, Disinfection, Antifouling, and Nanofiltration. Nanomaterials, 2021, 11, 3008.	1.9	63
77	Urchin-inspired zinc oxide as building blocks for nanostructured solar cells. Nano Energy, 2012, 1, 696-705.	8.2	61
78	Graphene-like BN/gelatin nanobiocomposites for gas barrier applications. Nanoscale, 2015, 7, 613-618.	2.8	61
79	Influence of Adsorption on Proteins and Amyloid Detection by Silicon Nitride Nanopore. Langmuir, 2016, 32, 8916-8925.	1.6	61
80	ZnO films formed by atomic layer deposition as an optical biosensor platform for the detection of Grapevine virus A-type proteins. Biosensors and Bioelectronics, 2017, 92, 763-769.	5.3	60
81	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
82	Nanocelluloses as skin biocompatible materials for skincare, cosmetics, and healthcare: Formulations, regulations, and emerging applications. Carbohydrate Polymers, 2022, 278, 118956.	5.1	60
83	Compression of freestanding gold nanostructures: from stochastic yield to predictable flow. Nanotechnology, 2010, 21, 055701.	1.3	56
84	Electrochemical growth of ZnO nanowires on atomic layer deposition coated polystyrene sphere templates. Electrochimica Acta, 2013, 110, 387-392.	2.6	56
85	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
86	Combining a sensor and a pH-gated nanopore based on an avidinâ€“biotin system. Chemical Communications, 2015, 51, 5994-5997.	2.2	53
87	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
88	Nanocrystalline-to-amorphous transition in nanolaminates grown by low temperature atomic layer deposition and related mechanical properties. Applied Physics Letters, 2012, 100, .	1.5	52
89	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
90	Overview of Proteinâ€Based Biopolymers for Biomedical Application. Macromolecular Chemistry and Physics, 2019, 220, 1900126.	1.1	50

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91	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
92	Novel biocompatible electrospun gelatin fiber mats with antibiotic drug delivery properties. Journal of Materials Chemistry B, 2016, 4, 1134-1141.	2.9	49
93	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
94	High Q factor for mechanical resonances of batch-fabricated SiC nanowires. Applied Physics Letters, 2007, 90, 043113.	1.5	48
95	Photoluminescence: A very sensitive tool to detect the presence of anatase in rutile phase electrospun TiO 2 nanofibers. Superlattices and Microstructures, 2015, 77, 18-24.	1.4	48
96	Enhancement of calcium copper titanium oxide photoelectrochemical performance using boron nitride nanosheets. Chemical Engineering Journal, 2020, 389, 124326.	6.6	48
97	Design of a novel fuel cell-Fenton system: a smart approach to zero energy depollution. Journal of Materials Chemistry A, 2016, 4, 17686-17693.	5.2	47
98	Synthesis of novel ZnO/ZnAl₂O₄ multi co-centric nanotubes and their long-term stability in photocatalytic application. RSC Advances, 2016, 6, 103692-103699.	1.7	47
99	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
100	Development of novel h-BNNS/PVA porous membranes via Pickering emulsion templating. Green Chemistry, 2018, 20, 4319-4329.	4.6	46
101	Nanostructured boron nitrideâ€“based materials: synthesis and applications. Materials Today Advances, 2020, 8, 100107.	2.5	46
102	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
103	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
104	High-yield synthesis of hollow boron nitride nano-polyhedrons. Journal of Materials Chemistry, 2011, 21, 8694.	6.7	44
105	Multifunctional Hydroxyapatite/Silver Nanoparticles/Cotton Gauze for Antimicrobial and Biomedical Applications. Nanomaterials, 2021, 11, 429.	1.9	44
106	Synthesis, growth mechanism, and photocatalytic activity of Zinc oxide nanostructures: porous microparticles versus nonporous nanoparticles. Journal of Materials Science, 2017, 52, 2746-2762.	1.7	43
107	Seed-Mediated Hot-Injection Synthesis of Tiny Ag Nanocrystals on Nanoscale Solid Supports and Reaction Mechanism. ACS Applied Materials & Interfaces, 2016, 8, 10551-10561.	4.0	42
108	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

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109	Natural payload delivery of the doxorubicin anticancer drug from boron nitride oxide nanosheets. Applied Surface Science, 2019, 475, 666-675.	3.1	42
110	Boron Nitride Based Nanobiocomposites: Design by 3D Printing for Bone Tissue Engineering. ACS Applied Bio Materials, 2020, 3, 1865-1874.	2.3	42
111	Recent Advances in Green Synthesis of Ag NPs for Extenuating Antimicrobial Resistance. Nanomaterials, 2022, 12, 1115.	1.9	42
112	Fast and reversible functionalization of a single nanopore based on layer-by-layer polyelectrolyte self-assembly for tuning current rectification and designing sensors. RSC Advances, 2016, 6, 32228-32233.	1.7	41
113	Nitrogen-Doped Graphitized Carbon Electrodes for Biorefractory Pollutant Removal. Journal of Physical Chemistry C, 2017, 121, 15188-15197.	1.5	41
114	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
115	Simultaneous hydrogen and oxygen evolution reactions using free-standing nitrogen-doped-carbonâ€“Co/CoO_x nanofiber electrodes decorated with palladium nanoparticles. Journal of Materials Chemistry A, 2021, 9, 17724-17739.	5.2	41
116	ZnO nanotubes by template-assisted solâ€“gel route. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	40
117	ALD thin ZnO layer as an active medium in a fiber-optic Fabryâ€“Perot interferometer. Sensors and Actuators A: Physical, 2015, 221, 88-94.	2.0	40
118	Low-Coherence Interferometric Fiber-Optic Sensors with Potential Applications as Biosensors. Sensors, 2017, 17, 261.	2.1	40
119	Electrodeposition of amorphous silicon in non-oxygenated organic solvent. Thin Solid Films, 2012, 520, 1895-1901.	0.8	39
120	Enhanced Ionic Transport Mechanism by Gramicidin A Confined Inside Nanopores Tuned by Atomic Layer Deposition. Journal of Physical Chemistry C, 2013, 117, 15306-15315.	1.5	39
121	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
122	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
123	Preparation of BN Microtubes/Nanotubes with a Unique Chemical Process. Journal of Physical Chemistry C, 2008, 112, 18325-18330.	1.5	38
124	A highly efficient gold/electrospun PAN fiber material for improved laccase biocathodes for biofuel cell applications. Journal of Materials Chemistry A, 2014, 2, 2794.	5.2	38
125	Application of Thin ZnO ALD Layers in Fiber-Optic Fabry-PÃ©rot Sensing Interferometers. Sensors, 2016, 16, 416.	2.1	38
126	Tailoring optical, magnetic and electric behavior of lanthanum strontium manganite La_{1â^'x}Sr_xMnO₃ (LSM) nanopowders prepared via a co-precipitation method with different Sr²⁺ ion contents. RSC Advances, 2016, 6, 17980-17986.	1.7	38

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127	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
128	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
129	Siliconâ€“boronâ€“carbonâ€“nitrogen monoliths with high, interconnected and hierarchical porosity. Journal of Materials Chemistry A, 2013, 1, 10991.	5.2	37
130	Effect of incorporation of boron nitride nanoparticles on the oxygen barrier and thermal properties of poly(3-hydroxybutyrate-co-hydroxyvalerate). RSC Advances, 2016, 6, 90973-90981.	1.7	37
131	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
132	Photoluminescence Study of Defects in ZnO-Coated Polyacrylonitrile Nanofibers. Journal of Physical Chemistry C, 2020, 124, 9434-9441.	1.5	37
133	Ordered hexagonal array of Au nanodots on Si substrate based on colloidal crystal templating. Nanotechnology, 2008, 19, 405304.	1.3	36
134	Mechanical properties of boron nitride thin films prepared by atomic layer deposition. CrystEngComm, 2017, 19, 6089-6094.	1.3	36
135	Catalytic electrospun nano-composite membranes for virus capture and remediation. Separation and Purification Technology, 2019, 229, 115806.	3.9	36
136	Atomic layer deposition (ALD) on inorganic or polymeric membranes. Journal of Applied Physics, 2019, 126, .	1.1	36
137	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
138	Extended domains of organized nanorings of silver grains as surface-enhanced Raman scattering sensors for molecular detection. Nanotechnology, 2009, 20, 455302.	1.3	35
139	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
140	Investigation of fine activated carbon as a viable flow electrode in capacitive deionization. Desalination, 2022, 525, 115500.	4.0	35
141	Adhesion Control for Micro- and Nanomanipulation. ACS Nano, 2011, 5, 4648-4657.	7.3	34
142	Tailoring optical and dielectric properties of Ba 0.5 Sr 0.5 TiO 3 powders synthesized using citrate precursor route. Materials and Design, 2016, 90, 54-59.	3.3	34
143	Tailoring of the electronic properties of ZnO-polyacrylonitrile nanofibers: Experiment and theory. Applied Surface Science, 2017, 411, 494-501.	3.1	34
144	From Synthesis to Applications: Copper Calcium Titanate (CCTO) and its Magnetic and Photocatalytic Properties. ChemistryOpen, 2019, 8, 922-950.	0.9	34

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145	Dynamics of polymer nanoparticles through a single artificial nanopore with a high-aspect-ratio. Soft Matter, 2014, 10, 8413-8419.	1.2	33
146	Tuning the optical and dielectric properties of calcium copper titanate Ca_xCu_{3âˆ’x}Ti₄O₁₂ nanopowders. RSC Advances, 2015, 5, 18767-18772.	1.7	33
147	Gold nanoparticles for the bare-eye based and spectrophotometric detection of proteins, polynucleotides and DNA. Mikrochimica Acta, 2015, 182, 1223-1229.	2.5	33
148	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
149	Influence of Hydrolyzed Polyacrylamide Hydrogel Stiffness on Podocyte Morphology, Phenotype, and Mechanical Properties. ACS Applied Materials & Interfaces, 2019, 11, 32623-32632.	4.0	32
150	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
151	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
152	Strong deviations from Fowler-Nordheim behavior for field emission from individual SiC nanowires due to restricted bulk carrier generation. Physical Review B, 2009, 79, .	1.1	31
153	Fe-Nanoporous Carbon Derived from MIL-53(Fe): A Heterogeneous Catalyst for Mineralization of Organic Pollutants. Nanomaterials, 2019, 9, 641.	1.9	31
154	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
155	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
156	Tuning the optical, electrical and magnetic properties of Ba_{0.5}Sr_{0.5}Ti_xM_{1âˆ’x}O₃ (BST) nanopowders. Physical Chemistry Chemical Physics, 2015, 17, 12553-12560.	1.3	30
157	Impact of Polyelectrolyte Multilayers on the Ionic Current Rectification of Conical Nanopores. Langmuir, 2018, 34, 3405-3412.	1.6	30
158	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
159	Nanowires with controlled porosity for hydrogen production. Journal of Materials Chemistry A, 2013, 1, 2133-2138.	5.2	29
160	Atomic Layer Deposition of zinc oxide for solar cell applications. Superlattices and Microstructures, 2014, 75, 477-484.	1.4	29
161	Non-Fluorescence label protein sensing with track-etched nanopore decorated by avidin/biotin system. Electrochimica Acta, 2016, 211, 611-618.	2.6	29
162	Enhanced the structure and optical properties for ZnO/PVP nanofibers fabricated via electrospinning technique. Journal of Materials Science: Materials in Electronics, 2017, 28, 17526-17532.	1.1	29

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163	Hydrogen selective palladium-alumina composite membranes prepared by Atomic Layer Deposition. Journal of Membrane Science, 2020, 596, 117701.	4.1	29
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