

# Vipul Bansal

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4001906/publications.pdf>

Version: 2024-02-01

182  
papers

13,075  
citations

17429

63  
h-index

24961

109  
g-index

190  
all docs

190  
docs citations

190  
times ranked

17344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocompatibility of Gold Nanoparticles and Their Endocytotic Fate Inside the Cellular Compartment: A Microscopic Overview. <i>Langmuir</i> , 2005, 21, 10644-10654.	1.6	1,479
2	Extracellular Biosynthesis of Magnetite using Fungi. <i>Small</i> , 2006, 2, 135-141.	5.2	389
3	Biosynthesis of zirconia nanoparticles using the fungus <i>Fusarium oxysporum</i> . <i>Journal of Materials Chemistry</i> , 2004, 14, 3303.	6.7	375
4	Fungus-mediated biosynthesis of silica and titania particles. <i>Journal of Materials Chemistry</i> , 2005, 15, 2583.	6.7	354
5	Room-Temperature Biosynthesis of Ferroelectric Barium Titanate Nanoparticles. <i>Journal of the American Chemical Society</i> , 2006, 128, 11958-11963.	6.6	285
6	Electrochemical Control of Photoluminescence in Two-Dimensional MoS <sub>2</sub> Nanoflakes. <i>ACS Nano</i> , 2013, 7, 10083-10093.	7.3	282
7	Aptamer-Controlled Reversible Inhibition of Gold Nanozyme Activity for Pesticide Sensing. <i>Analytical Chemistry</i> , 2014, 86, 11937-11941.	3.2	271
8	Templated Synthesis of Single-Component Polymer Capsules and Their Application in Drug Delivery. <i>Nano Letters</i> , 2008, 8, 1741-1745.	4.5	242
9	Nanostructured silver fabric as a free-standing NanoZyme for colorimetric detection of glucose in urine. <i>Biosensors and Bioelectronics</i> , 2018, 110, 8-15.	5.3	221
10	Optically Stimulated Artificial Synapse Based on Layered Black Phosphorus. <i>Small</i> , 2019, 15, e1900966.	5.2	201
11	Aptamer-mediated "turn-off/turn-on" nanozyme activity of gold nanoparticles for kanamycin detection. <i>Chemical Communications</i> , 2014, 50, 15856-15859.	2.2	198
12	Identifying Trends in Gold Nanoparticle Toxicity and Uptake: Size, Shape, Capping Ligand, and Biological Corona. <i>ACS Omega</i> , 2019, 4, 242-256.	1.6	186
13	Fungus-Mediated Biotransformation of Amorphous Silica in Rice Husk to Nanocrystalline Silica. <i>Journal of the American Chemical Society</i> , 2006, 128, 14059-14066.	6.6	182
14	Ultrasensitive Colorimetric Detection of Murine Norovirus Using NanoZyme Aptasensor. <i>Analytical Chemistry</i> , 2019, 91, 3270-3276.	3.2	174
15	Degradable, Surfactant-Free, Monodisperse Polymer-Encapsulated Emulsions as Anticancer Drug Carriers. <i>Advanced Materials</i> , 2009, 21, 1820-1824.	11.1	173
16	Aptamer-based point-of-care diagnostic platforms. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 535-553.	4.0	167
17	Aptamer-mediated colorimetric and electrochemical detection of <i>Pseudomonas aeruginosa</i> utilizing peroxidase-mimic activity of gold NanoZyme. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 1229-1238.	1.9	162
18	Aqueous phase synthesis of copper nanoparticles: a link between heavy metal resistance and nanoparticle synthesis ability in bacterial systems. <i>Nanoscale</i> , 2013, 5, 2300-2306.	2.8	158

#	ARTICLE	IF	CITATIONS
19	Design, synthesis and biological evaluation of 1,3-diphenyl-1 H-pyrazole derivatives containing benzimidazole skeleton as potential anticancer and apoptosis inducing agents. <i>European Journal of Medicinal Chemistry</i> , 2015, 101, 790-805.	2.6	156
20	Bacterial Kinetics-Controlled Shape-Directed Biosynthesis of Silver Nanoplates Using <i>Morganella psychrotolerans</i> . <i>Langmuir</i> , 2011, 27, 714-719.	1.6	155
21	Isothermal Titration Calorimetry Studies on the Binding of Amino Acids to Gold Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11535-11540.	1.2	146
22	Synergistic influence of polyoxometalate surface corona towards enhancing the antibacterial performance of tyrosine-capped Ag nanoparticles. <i>Nanoscale</i> , 2014, 6, 758-765.	2.8	146
23	Galvanic Replacement Reaction on Metal Films: A One-Step Approach to Create Nanoporous Surfaces for Catalysis. <i>Advanced Materials</i> , 2008, 20, 717-723.	11.1	145
24	Shape dependent electrocatalytic behaviour of silver nanoparticles. <i>CrystEngComm</i> , 2010, 12, 4280.	1.3	144
25	Visible-Light-Triggered Reactive-Oxygen-Species-Mediated Antibacterial Activity of Peroxidase-Mimic CuO Nanorods. <i>ACS Applied Nano Materials</i> , 2018, 1, 1694-1704.	2.4	144
26	Ambient Protection of Few-Layer Black Phosphorus via Sequestration of Reactive Oxygen Species. <i>Advanced Materials</i> , 2017, 29, 1700152.	11.1	141
27	Size, shape and surface chemistry of nano-gold dictate its cellular interactions, uptake and toxicity. <i>Progress in Materials Science</i> , 2016, 83, 152-190.	16.0	135
28	Trastuzumab-grafted PAMAM dendrimers for the selective delivery of anticancer drugs to HER2-positive breast cancer. <i>Scientific Reports</i> , 2016, 6, 23179.	1.6	133
29	Polycyclic Aromatic Hydrocarbons (PAHs) in inland aquatic ecosystems: Perils and remedies through biosensors and bioremediation. <i>Environmental Pollution</i> , 2018, 241, 212-233.	3.7	124
30	Detect, Remove and Reuse: A New Paradigm in Sensing and Removal of Hg (II) from Wastewater via SERS-Active ZnO/Ag Nanoarrays. <i>Environmental Science &amp; Technology</i> , 2015, 49, 1578-1584.	4.6	122
31	Black phosphorus: ambient degradation and strategies for protection. <i>2D Materials</i> , 2018, 5, 032001.	2.0	119
32	Oxygen-deficient photostable Cu <sub>2</sub> O for enhanced visible light photocatalytic activity. <i>Nanoscale</i> , 2018, 10, 6039-6050.	2.8	115
33	Fine-Tuning the Antimicrobial Profile of Biocompatible Gold Nanoparticles by Sequential Surface Functionalization Using Polyoxometalates and Lysine. <i>PLoS ONE</i> , 2013, 8, e79676.	1.1	113
34	High-Temperature Anodized WO <sub>3</sub> Nanoplatelet Films for Photosensitive Devices. <i>Langmuir</i> , 2009, 25, 9545-9551.	1.6	111
35	Bicontinuous cubic phase nanoparticle lipid chemistry affects toxicity in cultured cells. <i>Toxicology Research</i> , 2014, 3, 11-22.	0.9	111
36	Defining the role of humidity in the ambient degradation of few-layer black phosphorus. <i>2D Materials</i> , 2017, 4, 015025.	2.0	110

#	ARTICLE	IF	CITATIONS
37	UV-Switchable Polyoxometalate Sandwiched between TiO <sub>2</sub> and Metal Nanoparticles for Enhanced Visible and Solar Light Photocatalysis. <i>Langmuir</i> , 2011, 27, 9245-9252.	1.6	100
38	Facile Approach for the Dispersion of Regenerated Cellulose in Aqueous System in the Form of Nanoparticles. <i>Biomacromolecules</i> , 2012, 13, 2890-2895.	2.6	99
39	Zinc oxide/silver nanoarrays as reusable SERS substrates with controllable "hot-spots"™ for highly reproducible molecular sensing. <i>Journal of Colloid and Interface Science</i> , 2014, 436, 251-257.	5.0	97
40	Multifunctional Optoelectronics via Harnessing Defects in Layered Black Phosphorus. <i>Advanced Functional Materials</i> , 2019, 29, 1901991.	7.8	97
41	Degradation of black phosphorus is contingent on UV "blue light exposure. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	3.9	95
42	Decoration of TiO <sub>2</sub> Nanotubes with Metal Nanoparticles Using Polyoxometalate as a UV-Switchable Reducing Agent for Enhanced Visible and Solar Light Photocatalysis. <i>Langmuir</i> , 2012, 28, 14470-14475.	1.6	92
43	Gold nanospikes formed through a simple electrochemical route with high electrocatalytic and surface enhanced Raman scattering activity. <i>Chemical Communications</i> , 2009, , 5039.	2.2	90
44	Skin color-specific and spectrally-selective naked-eye dosimetry of UVA, B and C radiations. <i>Nature Communications</i> , 2018, 9, 3743.	5.8	89
45	Hybrid Antibacterial Fabrics with Extremely High Aspect Ratio Ag/AgTCNQ Nanowires. <i>Advanced Functional Materials</i> , 2014, 24, 1047-1053.	7.8	86
46	Gold Nanoparticle-Decorated Keggin Ions/TiO <sub>2</sub> Photocatalyst for Improved Solar Light Photocatalysis. <i>Langmuir</i> , 2011, 27, 6661-6667.	1.6	83
47	Galvanic replacement mediated synthesis of hollow Pt nanocatalysts: Significance of residual Ag for the H <sub>2</sub> evolution reaction. <i>Electrochemistry Communications</i> , 2009, 11, 1639-1642.	2.3	81
48	The Toxicity of Silver Nanoparticles (AgNPs) to Three Freshwater Invertebrates With Different Life Strategies: <i>Hydra vulgaris</i> , <i>Daphnia carinata</i> , and <i>Paratya australiensis</i> . <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	81
49	Inorganic materials using "unusual"™ microorganisms. <i>Advances in Colloid and Interface Science</i> , 2012, 179-182, 150-168.	7.0	80
50	Improving Efficacy, Oral Bioavailability, and Delivery of Paclitaxel Using Protein-Grafted Solid Lipid Nanoparticles. <i>Molecular Pharmaceutics</i> , 2016, 13, 3903-3912.	2.3	80
51	Recent Advances and a Roadmap to Wearable UV Sensor Technologies. <i>Advanced Materials Technologies</i> , 2020, 5, 1901036.	3.0	78
52	Galvanic replacement mediated transformation of Ag nanospheres into dendritic Au "Ag nanostructures in the ionic liquid [BMIM][BF <sub>4</sub> ]. <i>Chemical Communications</i> , 2010, 46, 731-733.	2.2	77
53	Probing the effect of charge transfer enhancement in off resonance mode SERS via conjugation of the probe dye between silver nanoparticles and metal substrates. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12920.	1.3	77
54	Heavy-Metal Remediation by a Fungus as a Means of Production of Lead and Cadmium Carbonate Crystals. <i>Langmuir</i> , 2005, 21, 7220-7224.	1.6	76

#	ARTICLE	IF	CITATIONS
55	Synthesis and biological evaluation of pyrazolo-triazole hybrids as cytotoxic and apoptosis inducing agents. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 10136-10149.	1.5	75
56	Flower-like Mn <sub>3</sub> O <sub>4</sub> /CeO <sub>2</sub> microspheres as an efficient catalyst for diesel soot and CO oxidation: Synergistic effects for enhanced catalytic performance. <i>Applied Surface Science</i> , 2019, 473, 209-221.	3.1	75
57	Premonolayer Oxidation of Nanostructured Gold: An Important Factor Influencing Electrocatalytic Activity. <i>Langmuir</i> , 2009, 25, 3845-3852.	1.6	74
58	Influence of Zr doping on the structure and ferroelectric properties of BiFeO <sub>3</sub> thin films. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	74
59	Dynamic interactions between peroxidase-mimic silver NanoZymes and chlorpyrifos-specific aptamers enable highly-specific pesticide sensing in river water. <i>Analytica Chimica Acta</i> , 2019, 1083, 157-165.	2.6	73
60	Bioleaching of Sand by the Fungus <i>Fusarium oxysporum</i> as a Means of Producing Extracellular Silica Nanoparticles. <i>Advanced Materials</i> , 2005, 17, 889-892.	11.1	70
61	Enhanced Gas Permeation through Graphene Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13700-13712.	1.5	70
62	Genus-Wide Physicochemical Evidence of Extracellular Crystalline Silver Nanoparticles Biosynthesis by <i>Morganella</i> spp. <i>PLoS ONE</i> , 2011, 6, e21401.	1.1	69
63	Donor-Induced Performance Tuning of Amorphous SrTiO <sub>3</sub> Memristive Nanodevices: Multistate Resistive Switching and Mechanical Tunability. <i>Advanced Functional Materials</i> , 2015, 25, 3172-3182.	7.8	68
64	Competitive Inhibition of the Enzyme-Mimic Activity of Gd-Based Nanorods toward Highly Specific Colorimetric Sensing of Cysteine. <i>Langmuir</i> , 2017, 33, 10006-10015.	1.6	68
65	Active Control of Silver Nanoparticles Spacing Using Dielectrophoresis for Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2012, 84, 4029-4035.	3.2	61
66	Soft exfoliation of 2D SnO with size-dependent optical properties. <i>2D Materials</i> , 2017, 4, 025110.	2.0	59
67	Quasi-Cubic Magnetite/Silica Core-Shell Nanoparticles as Enhanced MRI Contrast Agents for Cancer Imaging. <i>PLoS ONE</i> , 2011, 6, e21857.	1.1	58
68	Rapid colorimetric detection of mercury using biosynthesized gold nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 532, 451-457.	2.3	57
69	Galvanic Replacement of Semiconductor Phase I CuTCNQ Microrods with KAuBr <sub>4</sub> to Fabricate CuTCNQ/Au Nanocomposites with Photocatalytic Properties. <i>Inorganic Chemistry</i> , 2011, 50, 1705-1712.	1.9	56
70	Synthesis and biological evaluation of 5,10-dihydro-11 H -dibenzo[ b,e ][1,4]diazepin-11-one structural derivatives as anti-cancer and apoptosis inducing agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 108, 674-686.	2.6	56
71	Identification and Directed Development of Non-Organic Catalysts with Apparent Pan-Enzymatic Mimicry into Nanozymes for Efficient Prodrug Conversion. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 278-282.	7.2	56
72	Fungus-mediated Biological Approaches Towards 'Green' Synthesis of Oxide Nanomaterials. <i>Australian Journal of Chemistry</i> , 2011, 64, 279.	0.5	54

#	ARTICLE	IF	CITATIONS
73	Zirconia Enrichment in Zircon Sand by Selective Fungus-Mediated Bioleaching of Silica. <i>Langmuir</i> , 2007, 23, 4993-4998.	1.6	52
74	Low-Temperature Fabrication of Alkali Metal-Organic Charge Transfer Complexes on Cotton Textile for Optoelectronics and Gas Sensing. <i>Langmuir</i> , 2015, 31, 1581-1587.	1.6	51
75	Moving forward in plant food safety and security through NanoBioSensors: Adopt or adapt biomedical technologies?. <i>Proteomics</i> , 2015, 15, 1680-1692.	1.3	50
76	Ionic liquid mediated synthesis of nitrogen, carbon and fluorine-codoped rutile TiO <sub>2</sub> nanorods for improved UV and visible light photocatalysis. <i>RSC Advances</i> , 2015, 5, 1424-1429.	1.7	50
77	Non-invasive detection of glucose in human urine using a color-generating copper NanoZyme. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1279-1291.	1.9	50
78	Biomarker discovery and applications for foods and beverages: Proteomics to nanoproteomics. <i>Journal of Proteomics</i> , 2013, 93, 74-92.	1.2	49
79	Emerging applications of metal-TCNQ based organic semiconductor charge transfer complexes for catalysis. <i>Catalysis Today</i> , 2016, 278, 319-329.	2.2	48
80	Ligand-mediated reversal of the oxidation state dependent ROS scavenging and enzyme mimicking activity of ceria nanoparticles. <i>Chemical Communications</i> , 2018, 54, 13973-13976.	2.2	48
81	Detection of pesticides using nanozymes: Trends, challenges and outlook. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 144, 116429.	5.8	48
82	Synthesis of (Z)-1-(1,3-diphenyl-1H-pyrazol-4-yl)-3-(phenylamino)prop-2-en-1-one derivatives as potential anticancer and apoptosis inducing agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 117, 157-166.	2.6	47
83	Comparative influence of pH and heat on whey protein isolate in protecting <i>Lactobacillus plantarum</i> A17 during spray drying. <i>Food Hydrocolloids</i> , 2016, 54, 162-169.	5.6	47
84	Nanostructured WO <sub>3</sub> films using high temperature anodization. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 230-235.	4.0	46
85	Robust Nanostructured Silver and Copper Fabrics with Localized Surface Plasmon Resonance Property for Effective Visible Light Induced Reductive Catalysis. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500632.	1.9	46
86	Convenient design of porous and heteroatom self-doped carbons for CO <sub>2</sub> capture. <i>Microporous and Mesoporous Materials</i> , 2019, 287, 1-8.	2.2	45
87	Electrically Activated UV-A Filters Based on Electrochromic MoO <sub>3</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 16997-17003.	4.0	45
88	Gold nanospikes based microsensor as a highly accurate mercury emission monitoring system. <i>Scientific Reports</i> , 2014, 4, 6741.	1.6	44
89	Cyclic RGDfK Peptide Functionalized Polymeric Nanocarriers for Targeting Gemcitabine to Ovarian Cancer Cells. <i>Molecular Pharmaceutics</i> , 2016, 13, 1491-1500.	2.3	44
90	Photomodulation of bacterial growth and biofilm formation using carbohydrate-based surfactants. <i>Chemical Science</i> , 2016, 7, 6628-6634.	3.7	43

#	ARTICLE	IF	CITATIONS
91	Creating gold nanoprisms directly on quartz crystal microbalance electrodes for mercury vapor sensing. <i>Nanotechnology</i> , 2011, 22, 305501.	1.3	40
92	3-D nanorod arrays of metal-organic KTCNQ semiconductor on textiles for flexible organic electronics. <i>RSC Advances</i> , 2013, 3, 17654.	1.7	40
93	Rapid, accurate, and comparative differentiation of clinically and industrially relevant microorganisms via multiple vibrational spectroscopic fingerprinting. <i>Analyst</i> , 2016, 141, 5127-5136.	1.7	40
94	Acoustic-Excitonic Coupling for Dynamic Photoluminescence Manipulation of Quasi-2D MoS <sub>2</sub> Nanoflakes. <i>Advanced Optical Materials</i> , 2015, 3, 888-894.	3.6	39
95	Microstructure and dynamics of vacancy-induced nanofilamentary switching network in donor doped SrTiO <sub>3</sub> memristors. <i>Nanotechnology</i> , 2016, 27, 505210.	1.3	39
96	Synthesis of CuTCNQ/Au Microrods by Galvanic Replacement of Semiconducting Phase I CuTCNQ with KAuBr <sub>4</sub> in Aqueous Medium. <i>Inorganic Chemistry</i> , 2012, 51, 8791-8801.	1.9	38
97	Effects of plasma-treatment on the electrical and optoelectronic properties of layered black phosphorus. <i>Applied Materials Today</i> , 2018, 12, 244-249.	2.3	38
98	Evaluation of the effects of gold nanoparticle shape and size on contrast enhancement in radiological imaging. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2011, 34, 243-249.	1.4	37
99	A new paradigm for signal processing of Raman spectra using a smoothing free algorithm: Coupling continuous wavelet transform with signal removal method. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 608-621.	1.2	36
100	GOLD SELEX: a novel SELEX approach for the development of high-affinity aptamers against small molecules without residual activity. <i>Mikrochimica Acta</i> , 2020, 187, 618.	2.5	36
101	N-acetyl-d-glucosamine-conjugated PAMAM dendrimers as dual receptor-targeting nanocarriers for anticancer drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 154, 377-386.	2.0	36
102	Charge-switchable gold nanoparticles for enhanced enzymatic thermostability. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21517-21524.	1.3	34
103	Nanostructured charge transfer complex of CuTCNQF <sub>4</sub> for efficient photo-removal of hexavalent chromium. <i>RSC Advances</i> , 2016, 6, 33931-33936.	1.7	34
104	Functional Femtoliter Droplets for Ultrafast Nanoextraction and Supersensitive Online Microanalysis. <i>Small</i> , 2019, 15, e1804683.	5.2	34
105	Mercury vapor sensor enhancement by nanostructured gold deposited on nickel surfaces using galvanic replacement reactions. <i>Journal of Materials Chemistry</i> , 2012, 22, 21395.	6.7	33
106	Decoupling the Effects of the Size, Wall Thickness, and Porosity of Curcumin-Loaded Chitosan Nanocapsules on Their Anticancer Efficacy: Size Is the Winner. <i>Langmuir</i> , 2013, 29, 658-666.	1.6	31
107	Phytochemicals as Dynamic Surface Ligands To Control Nanoparticle-Protein Interactions. <i>ACS Omega</i> , 2018, 3, 2220-2229.	1.6	30
108	Dynamic multistimuli-responsive reversible chiral transformation in supramolecular helices. <i>Scientific Reports</i> , 2018, 8, 11220.	1.6	30

#	ARTICLE	IF	CITATIONS
109	Self-Assembled Enzyme Capsules in Ionic Liquid [BMIM][BF <sub>4</sub> ] as Templating Nanoreactors for Hollow Silica Nanocontainers. <i>Langmuir</i> , 2010, 26, 16020-16024.	1.6	29
110	Combining the UV-Switchability of Keggin Ions with a Galvanic Replacement Process to Fabricate TiO <sub>2</sub> â€“Polyoxometalateâ€“Bimetal Nanocomposites for Improved Surface Enhanced Raman Scattering and Solar Light Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7007-7013.	4.0	29
111	Alkali-activated electrospun carbon nanofibers as an efficient bifunctional adsorbent for cationic and anionic dyes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 582, 123835.	2.3	29
112	Site-specific delivery of a natural chemotherapeutic agent to human lung cancer cells using biotinylated 2D rGO nanocarriers. <i>Materials Science and Engineering C</i> , 2020, 112, 110884.	3.8	29
113	Cationic Amino Acids Specific Biomimetic Silicification in Ionic Liquid: A Quest to Understand the Formation of 3-D Structures in Diatoms. <i>PLoS ONE</i> , 2011, 6, e17707.	1.1	28
114	Transferrin-conjugated quasi-cubic SPIONs for cellular receptor profiling and detection of brain cancer. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126737.	4.0	28
115	Alkali ratio control for lead-free piezoelectric thin films utilizing elemental diffusivities in RF plasma. <i>CrystEngComm</i> , 2013, 15, 7222.	1.3	26
116	Bimetallic nanozyme mediated urine glucose monitoring through discriminant analysis of colorimetric signal. <i>Biosensors and Bioelectronics</i> , 2022, 212, 114386.	5.3	26
117	MOF-derived noble-metal-free Cu/CeO <sub>2</sub> with high porosity for the efficient waterâ€“gas shift reaction at low temperatures. <i>Catalysis Science and Technology</i> , 2019, 9, 4226-4231.	2.1	25
118	In-depth nano-scale analysis of complex interactions of Hg with gold nanostructures using AFM-based power spectrum density method. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2374.	1.3	24
119	Cobalt Sulfide Nanosheets as Peroxidase Mimics for Colorimetric Detection of Cysteine. <i>ACS Applied Nano Materials</i> , 2021, 4, 13352-13362.	2.4	24
120	Facile, size-controlled deposition of highly dispersed gold nanoparticles on nitrogen carbon nanotubes for hydrogen sensing. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1034-1042.	4.0	21
121	Hybrid CuTCNQ/AgTCNQ Metalâ€“Organic Charge Transfer Complexes via Galvanic Replacement vs Corrosionâ€“Recrystallization. <i>Advanced Functional Materials</i> , 2014, 24, 7570-7579.	7.8	21
122	Inducing tunable switching behavior in a single memristor. <i>Applied Materials Today</i> , 2018, 11, 280-290.	2.3	21
123	Photomodulated Spatially Confined Chemical Reactivity in a Single Silver Nanoprism. <i>ACS Nano</i> , 2020, 14, 11100-11109.	7.3	21
124	Impact of nanogold morphology on interactions with human serum. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29558-29565.	1.3	20
125	Tyrosine Mediated Gold, Silver and Their Alloy Nanoparticles Synthesis: Antibacterial Activity Toward Gram Positive and Gram Negative Bacterial Strains. , 2011, , .		18
126	Linking Flavonoids to Gold â€“ A New Family of Gold Compounds for Potential Therapeutic Applications. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 4275-4279.	1.0	18



#	ARTICLE	IF	CITATIONS
127	Transparent amorphous strontium titanate resistive memories with transient photo-response. <i>Nanoscale</i> , 2017, 9, 14690-14702.	2.8	18
128	Absence of morphotropic phase boundary effects in $\text{BiFeO}_3/\text{PbTiO}_3$ thin films grown via a chemical multilayer deposition method. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 395-400.	1.1	17
129	Fast and Highly Sensitive Detection of Pathogens Wreathed with Magnetic Nanoparticles Using Dark-Field Microscopy. <i>ACS Sensors</i> , 2018, 3, 2175-2181.	4.0	17
130	Cobalt nanoparticles incorporated into hollow doped porous carbon capsules as a highly efficient oxygen reduction electrocatalyst. <i>Catalysis Science and Technology</i> , 2018, 8, 5244-5250.	2.1	17
131	Controlling the morphological and redox properties of the CuTCNQ catalyst through solvent engineering. <i>Emergent Materials</i> , 2019, 2, 35-44.	3.2	17
132	Unveiling the effect of 11-MUA coating on biocompatibility and catalytic activity of a gold-core cerium oxide-shell-based nanozyme. <i>RSC Advances</i> , 2019, 9, 33195-33206.	1.7	17
133	L-Cysteine as an Irreversible Inhibitor of the Peroxidase-Mimic Catalytic Activity of 2-Dimensional Ni-Based Nanozymes. <i>Nanomaterials</i> , 2021, 11, 1285.	1.9	17
134	Role of the Templating Approach in Influencing the Suitability of Polymeric Nanocapsules for Drug Delivery: LbL vs SC/MS. <i>Langmuir</i> , 2013, 29, 12212-12219.	1.6	16
135	Lateral charge propagation effects during the galvanic replacement of electrodeposited MTCNQ (M=Cu, Ag) microstructures with gold and its influence on catalyzed electron transfer reactions. <i>Electrochimica Acta</i> , 2013, 114, 189-197.	2.6	16
136	Influence of Physicochemical Properties of Nanomaterials on Their Antibacterial Applications. , 2015, , 151-166.		16
137	Broadband light active MTCNQ-based metal-organic semiconducting hybrids for enhanced redox catalysis. <i>Applied Materials Today</i> , 2018, 13, 107-115.	2.3	16
138	Comparison of nanostructures obtained from galvanic replacement in water and an ionic liquid for applications in electrocatalysis and SERS. <i>Electrochemistry Communications</i> , 2012, 25, 87-90.	2.3	15
139	Electrocatalytic and SERS activity of Pt rich Pt-Pb nanostructures formed via the utilisation of in-situ underpotential deposition of lead. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 3345-3357.	1.2	15
140	Generating strong room-temperature photoluminescence in black phosphorus using organic molecules. <i>2D Materials</i> , 2019, 6, 015009.	2.0	15
141	Self-Assembled Histidine Acid Phosphatase Nanocapsules in Ionic Liquid [BMIM][BF <sub>4</sub> ] as Functional Templates for Hollow Metal Nanoparticles. <i>Langmuir</i> , 2012, 28, 10389-10397.	1.6	14
142	Monocrystalline Antimonene Nanosheets via Physical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001678.	1.9	14
143	Solution-processable do-it-yourself switching devices (DIY devices) based on CuTCNQ metal-organic semiconductors. <i>Applied Materials Today</i> , 2018, 10, 12-17.	2.3	13
144	Time and rate dependent synaptic learning in neuro-mimicking resistive memories. <i>Scientific Reports</i> , 2019, 9, 15404.	1.6	13

#	ARTICLE	IF	CITATIONS
145	A visual tutorial on the synthesis of gold nanoparticles. Biomedical Imaging and Intervention Journal, 2010, 6, e9.	0.5	12
146	A unique in vivo approach for investigating antimicrobial materials utilizing fistulated animals. Scientific Reports, 2015, 5, 11515.	1.6	12
147	Role of Water in the Dynamic Crystallization of CuTCNQ for Enhanced Redox Catalysis (TCNQ =) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.9	12
148	One-pot synthesis of maghemite nanocrystals across aqueous and organic solvents for magnetic hyperthermia. Applied Materials Today, 2018, 12, 250-259.	2.3	12
149	LSPR-Induced Catalytic Enhancement Using Bimetallic Copper Fabrics Prepared by Galvanic Replacement Reactions. Advanced Materials Interfaces, 2019, 6, 1900516.	1.9	12
150	Photochromic polyoxometalate-based enzyme-free reusable sensors for real-time colorimetric detection of alcohol in sweat and saliva. Materials Today Chemistry, 2021, 21, 100491.	1.7	12
151	Effect of Imidazolium-Based Ionic Liquids on the Nanoscale Morphology of CuTCNQ (TCNQ =) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.6	11
152	Functionalized Concave Cube Gold Nanoparticles as Potent Antimicrobial Agents against Pathogenic Bacteria. ACS Applied Bio Materials, 2022, 5, 492-503.	2.3	11
153	Electrochemical and Chemical Oxidation of [Pt <sub>2</sub> (1/4-pyrophosphite) <sub>4</sub> ] <sup>4+</sup> Revisited: Characterization of a Nitrosyl Derivative, [Pt <sub>2</sub> (1/4-pyrophosphite) <sub>4</sub> (NO)] <sup>3+</sup> . Inorganic Chemistry, 2009, 48, 2593-2604.	1.9	10
154	Synthesis and Properties of Photoswitchable Carbohydrate Fluorosurfactants. Australian Journal of Chemistry, 2015, 68, 1880.	0.5	10
155	Peptide grafted and self-assembled poly( <sup>13</sup> -glutamic acid)-phenylalanine nanoparticles targeting camptothecin to glioma. Nanomedicine, 2017, 12, 1661-1674.	1.7	10
156	Complexation of plasmid DNA and poly(ethylene oxide)/poly(propylene oxide) polymers for safe gene delivery. Environmental Chemistry Letters, 2018, 16, 1457-1462.	8.3	10
157	Copper Tetracyanoquinodimethane (CuTCNQ): A Metal-Organic Semiconductor for Room-Temperature Visible to Long-Wave Infrared Photodetection. ACS Applied Materials & Interfaces, 2021, 13, 38544-38552.	4.0	10
158	Galvanic Replacement of Semiconducting CuTCNQF <sub>4</sub> with Ag <sup>+</sup> Ions to Enhance Electron Transfer Reaction. ChemistrySelect, 2017, 2, 9962-9969.	0.7	9
159	Nanoporous TiCN with High Specific Surface Area for Enhanced Hydrogen Evolution Reaction. ACS Applied Nano Materials, 2022, 5, 12077-12086.	2.4	9
160	Defect Compensation in Nitrogen-Doped $\text{In}_2\text{Ga}_2\text{O}_3$ Nanowires: Implications for Bipolar Nanoscale Devices. ACS Applied Nano Materials, 2022, 5, 12087-12094.	2.4	9
161	Influence of Gold Nanoparticles on Radiation Dose Enhancement and Cellular Migration in Microbeam-Irradiated Cells. BioNanoScience, 2011, 1, 4-13.	1.5	8
162	Long-Range Ordered Crystals of 3D Inorganic-Organic Heterojunctions via Colloidal Lithography. Small Methods, 2019, 3, 1900080.	4.6	8

#	ARTICLE	IF	CITATIONS
163	Metal-Organic Charge Transfer Complexes of Pb(TCNQ) <sub>2</sub> and Pb(TCNQF <sub>4</sub> ) <sub>2</sub> as New Catalysts for Electron Transfer Reactions. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001111.	1.9	8
164	CHAPTER 23. Nanozyme-Based Environmental Monitoring. <i>RSC Detection Science</i> , 0, , 108-132.	0.0	8
165	Sunscreen testing: A critical perspective and future roadmap. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 157, 116724.	5.8	7
166	Gold Nanoparticle Biodistribution and Toxicity: Role of Biological Corona in Relation with Nanoparticle Characteristics. , 2017, , 419-436.		5
167	Study of dielectric and mechanical properties of epoxy/SiO <sub>2</sub> /nanocomposite prepared by different processing techniques. , 2015, , .		4
168	Data related to the nanoscale structural and compositional evolution in resistance change memories. <i>Data in Brief</i> , 2018, 21, 18-24.	0.5	4
169	Protein-only nanocapsules induce cross-presentation in dendritic cells, demonstrating potential as an antigen delivery system. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 28, 102234.	1.7	4
170	Increased Crystallization of CuTCNQ in Water/DMSO Bisolvent for Enhanced Redox Catalysis. <i>Nanomaterials</i> , 2021, 11, 954.	1.9	4
171	Excess iron promotes emergence of foamy macrophages that overexpress ferritin in the lungs of silicosis patients. <i>Respirology</i> , 2022, 27, 427-436.	1.3	4
172	Ionic Liquids as Designer Solvents for the Synthesis of Metal Nanoparticles. , 0, , .		3
173	Mono- to few-layer non-van der Waals 2D lanthanide-doped NaYF <sub>4</sub> nanosheets with upconversion luminescence. <i>2D Materials</i> , 2021, 8, 015005.	2.0	3
174	Reactive Oxygen Species Sequestration Induced Synthesis of $\beta$ -PbO and Its Polymorphic Transformation to $\alpha$ -PbO at Atomically Thin Regimes. <i>ACS Nano</i> , 2022, 16, 10679-10691.	7.3	3
175	Galvanic replacement of anions in metal-organic semiconductors: a spontaneous redox reaction between TCNQ <sup>1-</sup> and TCNQF <sub>4</sub> (TCNQ <sup>1-</sup> = 7,7,8,8-tetracyanoquinodimethane). <i>Materials Today Chemistry</i> , 2022, 26, 100998.	1.7	3
176	Nanozyme-Based Sensors for Pesticide Detection. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 145-175.	0.3	2
177	Antibacterials: Hybrid Antibacterial Fabrics with Extremely High Aspect Ratio Ag/AgTCNQ Nanowires ( <i>Adv. Funct. Mater.</i> 8/2014). <i>Advanced Functional Materials</i> , 2014, 24, 1030-1030.	7.8	1
178	Surface Plasmon Resonance: Robust Nanostructured Silver and Copper Fabrics with Localized Surface Plasmon Resonance Property for Effective Visible Light Induced Reductive Catalysis ( <i>Adv. Mater.</i> ) <i>Tj ETQq0 0 0 rgBTi/Overlock 10 Tf 50 1</i>		
179	Biological shape-controlled synthesis of silver nanoplates. , 2010, , .		0
180	Electrochemical formation of platinum nanostructures for fuel cell applications. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
181	Longwave Infrared Photoresponse in Copper 7,7,8,8-tetracyano-2,3,5,6-tetrafluoroquinodimethane (CuTCNQF4). , 2021, , .		0
182	Visible to Long-Wave Infrared Photodetectors based on Copper Tetracyanoquinodimethane (CuTCNQ) Crystals. , 2020, , .		0