

Avijit Pramanik

List of Publications by Year in descending order

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79
papers

2,499
citations

147801

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h-index

214800

47
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80
all docs

80
docs citations

80
times ranked

4059
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioconjugated Nanomaterial for Targeted Diagnosis of SARS-CoV-2. <i>Accounts of Materials Research</i> , 2022, 3, 134-148.	11.7	10
2	Blocking SARS-CoV-2 Delta Variant (B.1.617.2) Spike Protein Receptor-Binding Domain Binding with the ACE2 Receptor of the Host Cell and Inhibiting Virus Infections Using Human Host Defense Peptide-Conjugated Graphene Quantum Dots. <i>ACS Omega</i> , 2022, 7, 8150-8157.	3.5	10
3	Bio-Conjugated Magnetic-Fluorescence Nanoarchitectures for the Capture and Identification of Lung-Tumor-Derived Programmed Cell Death Lighand 1-Positive Exosomes. <i>ACS Omega</i> , 2022, 7, 16035-16042.	3.5	5
4	Water Triggered Synthesis of Highly Stable and Biocompatible 1D Nanowire, 2D Nanoplatelet, and 3D Nanocube CsPbBr ₃ Perovskites for Multicolor Two-Photon Cell Imaging. <i>Jacs Au</i> , 2021, 1, 53-65.	7.9	40
5	Aptamer Conjugated Gold Nanostar-Based Distance-Dependent Nanoparticle Surface Energy Transfer Spectroscopy for Ultrasensitive Detection and Inactivation of Corona Virus. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2166-2171.	4.6	53
6	The rapid diagnosis and effective inhibition of coronavirus using spike antibody attached gold nanoparticles. <i>Nanoscale Advances</i> , 2021, 3, 1588-1596.	4.6	82
7	Development of Human Host Defense Antimicrobial Peptide-Conjugated Biochar Nanocomposites for Combating Broad-Spectrum Superbugs. <i>ACS Applied Bio Materials</i> , 2020, 3, 7696-7705.	4.6	6
8	Mixed-Dimensional Heterostructure Material-Based SERS for Trace Level Identification of Breast Cancer-Derived Exosomes. <i>ACS Omega</i> , 2020, 5, 16602-16611.	3.5	28
9	2D and Heterostructure Nanomaterial Based Strategies for Combating Drug-Resistant Bacteria. <i>ACS Omega</i> , 2020, 5, 3116-3130.	3.5	43
10	A WS ₂ -gold nanoparticle heterostructure-based novel SERS platform for the rapid identification of antibiotic-resistant pathogens. <i>Nanoscale Advances</i> , 2020, 2, 2025-2033.	4.6	19
11	Water-Soluble and Bright Luminescent Cesium-Lead-Bromide Perovskite Quantum Dot-Polymer Composites for Tumor-Derived Exosome Imaging. <i>ACS Applied Bio Materials</i> , 2019, 2, 5872-5879.	4.6	38
12	Designing highly crystalline multifunctional multicolor-luminescence nanosystem for tracking breast cancer heterogeneity. <i>Nanoscale Advances</i> , 2019, 1, 1021-1034.	4.6	6
13	Giant Chemical and Excellent Synergistic Raman Enhancement from a 3D MoS ₂ -Gold Nanoparticle Hybrid. <i>ACS Omega</i> , 2019, 4, 11112-11118.	3.5	11
14	Composites Composed of Polydopamine Nanoparticles, Graphene Oxide, and μ-Poly-L-lysine for Removal of Waterborne Contaminants and Eradication of Superbugs. <i>ACS Applied Nano Materials</i> , 2019, 2, 3339-3347.	5.0	18
15	Several Orders-of-Magnitude Enhancement of Multiphoton Absorption Property for CsPbX ₃ Perovskite Quantum Dots by Manipulating Halide Stoichiometry. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5150-5156.	3.1	41
16	Antimicrobial Peptide-Conjugated MoS ₂ -Based Nanoplatform for Multimodal Synergistic Inactivation of Superbugs. <i>ACS Applied Bio Materials</i> , 2019, 2, 769-776.	4.6	29
17	Multifunctional hybrid graphene oxide for circulating tumor cell isolation and analysis. <i>Advanced Drug Delivery Reviews</i> , 2018, 125, 21-35.	13.7	27
18	Fluorescence Resonance Energy Transfer Based Highly Efficient Theranostic Nanoplatform for Two-Photon Bioimaging and Two-Photon Excited Photodynamic Therapy of Multiple Drug Resistance Bacteria. <i>ACS Applied Bio Materials</i> , 2018, 1, 298-309.	4.6	38

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19	Development of a SERS Probe for Selective Detection of Healthy Prostate and Malignant Prostate Cancer Cells Using Zn II. <i>Chemistry - an Asian Journal</i> , 2017, 12, 665-672.	3.3	15
20	Recent progress on the development of anisotropic gold nanoparticles: Design strategies and growth mechanism. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2017, 35, 47-66.	2.9	4
21	Fluorescent, Magnetic Multifunctional Carbon Dots for Selective Separation, Identification, and Eradication of Drug-Resistant Superbugs. <i>ACS Omega</i> , 2017, 2, 554-562.	3.5	59
22	Two-Photon Fluorescent Molybdenum Disulfide Dots for Targeted Prostate Cancer Imaging in the Biological II Window. <i>ACS Omega</i> , 2017, 2, 1826-1835.	3.5	47
23	Multifunctional Three-Dimensional Chitosan/Gold Nanoparticle/Graphene Oxide Architecture for Separation, Label-Free SERS Identification of Pharmaceutical Contaminants, and Effective Killing of Superbugs. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7175-7187.	6.7	60
24	An Ideal C_{3v} -Symmetric Sulfate Complex: Molecular Recognition of Oxanions by <i>m</i> -Nitrophenyl- and Pentafluorophenyl-Functionalized Hexaurea Receptors. <i>ACS Omega</i> , 2017, 2, 5840-5849.	3.5	14
25	Remarkable hexafunctional anion receptor with operational urea-based inner cleft and thiourea-based outer cleft: Novel design with high-efficiency for sulfate binding. <i>Scientific Reports</i> , 2017, 7, 6032.	3.3	18
26	A bio-conjugated chitosan wrapped CNT based 3D nanoporous architecture for separation and inactivation of <i>Rotavirus</i> and <i>Shigella</i> waterborne pathogens. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9522-9531.	5.8	18
27	Multifunctional Biochar for Highly Efficient Capture, Identification, and Removal of Toxic Metals and Superbugs from Water Samples. <i>ACS Omega</i> , 2017, 2, 7730-7738.	3.5	30
28	Nanoarchitecture Based SERS for Biomolecular Fingerprinting and Label-Free Disease Markers Diagnosis. <i>Accounts of Chemical Research</i> , 2016, 49, 2725-2735.	15.6	114
29	Multimodal Nonlinear Optical Imaging of Live Cells Using Plasmon-Coupled DNA-Mediated Gold Nanoprisms Assembly. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4546-4555.	3.1	19
30	Three-dimensional (3D) plasmonic hot spots for label-free sensing and effective photothermal killing of multiple drug resistant superbugs. <i>Nanoscale</i> , 2016, 8, 18301-18308.	5.6	35
31	Development of Multifunctional Fluorescent-Magnetic Nanoprobes for Selective Capturing and Multicolor Imaging of Heterogeneous Circulating Tumor Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15076-15085.	8.0	35
32	Designing a multicolor long range nanoscopic ruler for the imaging of heterogeneous tumor cells. <i>Nanoscale</i> , 2016, 8, 13769-13780.	5.6	5
33	Hybrid Graphene Oxide Based Plasmonic-Magnetic Multifunctional Nanoplatfor for Selective Separation and Label-Free Identification of Alzheimer's Disease Biomarkers. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13693-13700.	8.0	113
34	Antimicrobial peptide-conjugated graphene oxide membrane for efficient removal and effective killing of multiple drug resistant bacteria. <i>RSC Advances</i> , 2015, 5, 18881-18887.	3.6	99
35	Aptamer-Conjugated Graphene Oxide Membranes for Highly Efficient Capture and Accurate Identification of Multiple Types of Circulating Tumor Cells. <i>Bioconjugate Chemistry</i> , 2015, 26, 235-242.	3.6	98
36	Novel metal-organic framework with tunable fluorescence property: supramolecular signaling platform for polynitrophenolics. <i>Dalton Transactions</i> , 2015, 44, 6348-6352.	3.3	29

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37	Multifunctional Biocompatible Graphene Oxide Quantum Dots Decorated Magnetic Nanoplatform for Efficient Capture and Two-Photon Imaging of Rare Tumor Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10935-10943.	8.0	99
38	Long-range two-photon scattering spectroscopy ruler for screening prostate cancer cells. <i>Chemical Science</i> , 2015, 6, 2411-2418.	7.4	17
39	Bio-Conjugated CNT-Bridged 3D Porous Graphene Oxide Membrane for Highly Efficient Disinfection of Pathogenic Bacteria and Removal of Toxic Metals from Water. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19210-19218.	8.0	81
40	At the Molecular Level through Photophysical Studies: Structural Implications on the Reactivity of Dual-Site Sensitive Positional Isomers Toward a Gasotransmitter (H_2S). <i>Journal of Physical Chemistry C</i> , 2015, 119, 19367-19375.	3.1	6
41	Hybrid Theranostic Platform for Second Near-IR Window Light Triggered Selective Two-Photon Imaging and Photothermal Killing of Targeted Melanoma Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20649-20656.	8.0	40
42	Binding and selectivity of dihydrogen phosphate by H-bond donors and acceptors in a tripodal-based thiourea receptor. <i>Tetrahedron Letters</i> , 2015, 56, 115-118.	1.4	23
43	A Synthetic Thiourea-Based Tripodal Receptor that Impairs the Function of Human First Trimester Cytotrophoblast Cells. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 7456-7469.	2.6	3
44	Absorption of Atmospheric CO ₂ as Carbonate Inside the Molecular Cavity of a New Tripodal Hexaurea Receptor. <i>Organic Letters</i> , 2014, 16, 366-369.	4.6	26
45	Aptamer-conjugated theranostic hybrid graphene oxide with highly selective biosensing and combined therapy capability. <i>Faraday Discussions</i> , 2014, 175, 257-271.	3.2	27
46	Nanoscope optical rulers beyond the FRET distance limit: fundamentals and applications. <i>Chemical Society Reviews</i> , 2014, 43, 6370-6404.	38.1	132
47	Engineering fused coumarin dyes: a molecular level understanding of aggregation quenching and tuning electroluminescence via alkyl chain substitution. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6637.	5.5	53
48	Theranostic Graphene Oxide for Prostate Cancer Detection and Treatment. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1252-1259.	2.3	16
49	Accurate Identification and Selective Removal of Rotavirus Using a Plasmonic "Magnetic 3D Graphene Oxide Architecture. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3216-3221.	4.6	33
50	Extremely High Two-Photon Absorbing Graphene Oxide for Imaging of Tumor Cells in the Second Biological Window. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2150-2154.	4.6	45
51	An exclusive fluoride receptor: fluoride-induced proton transfer to a quinoline-based thiourea. <i>Tetrahedron Letters</i> , 2014, 55, 1467-1470.	1.4	25
52	Highly Efficient and Excitation Tunable Two-Photon Luminescence Platform For Targeted Multi-Color MDRB Imaging Using Graphene Oxide. <i>Scientific Reports</i> , 2014, 4, 6090.	3.3	35
53	Hexa- $\frac{1}{4}$ -acetato-1:2 ⁴ - $\langle i \rangle O \langle /i \rangle$; 1:2 ² - $\langle i \rangle O \langle /i \rangle$; 2:3 ⁴ - $\langle i \rangle O \langle /i \rangle$. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, m643-m644.	0.2	3
54	3,3'-Bis(quinolin-8-yl)-1,1'-[4,4'-methylenebis(4,1-phenylene)]diurea. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o158-o159.	0.2	1

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55	Self-assembly of ordered water tetramers in an encapsulated $[\text{Br}(\text{H}_2\text{O})_{12}]^{\sim}$ complex. <i>Chemical Communications</i> , 2012, 48, 8631.	4.1	25
56	Spectroscopic, Structural, and Theoretical Studies of Halide Complexes with a Urea-Based Tripodal Receptor. <i>Inorganic Chemistry</i> , 2012, 51, 4274-4284.	4.0	50
57	Anion Cluster: Assembly of Dihydrogen Phosphates for the Formation of a Cyclic Anion Octamer. <i>Crystal Growth and Design</i> , 2012, 12, 567-571.	3.0	39
58	Phosphate binding with a thiophene-based azamacrocyclic in water. <i>Inorganic Chemistry Communication</i> , 2012, 21, 32-34.	3.9	5
59	A Quinoline Based bis-Urea Receptor for Anions: A Selective Receptor for Hydrogen Sulfate. <i>Natural Product Communications</i> , 2012, 7, 1934578X1200700.	0.5	2
60	A Self-Assembled Fluoride-Water Cyclic Cluster of $[\text{F}(\text{H}_2\text{O})_4]^{4-}$ in a Molecular Box. <i>Journal of the American Chemical Society</i> , 2012, 134, 11892-11895.	13.7	43
61	A quinoline based bis-urea receptor for anions: a selective receptor for hydrogen sulfate. <i>Natural Product Communications</i> , 2012, 7, 301-4.	0.5	12
62	Anion specificity induced conformational changes in cresol-based tripodal podands controlled by weak interactions: structural and Hirshfeld surface analysis. <i>CrystEngComm</i> , 2011, 13, 1664-1675.	2.6	14
63	A C_3 Symmetric Nitrate Complex with a Thiophene-Based Tripodal Receptor. <i>Crystal Growth and Design</i> , 2011, 11, 959-963.	3.0	28
64	Interplay of solvent in flexible behaviour of cyclohexane dinaphthyl bis-thiourea system: conformational aspects. <i>Supramolecular Chemistry</i> , 2011, 23, 425-434.	1.2	4
65	Seven-coordinate anion complex with a tren-based urea: Binding discrepancy of hydrogen sulfate in solid and solution states. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4444.	2.8	42
66	Coordination assembly of p-substituted aryl azo imidazole complexes: Influences of electron donating substitution and counter ions. <i>Polyhedron</i> , 2010, 29, 1980-1989.	2.2	20
67	Aryl azo imidazole assisted self-assembly of d10 metal complexes: Influence of halogen substitution and counter ions. <i>Polyhedron</i> , 2010, 29, 2999-3007.	2.2	13
68	Tris{2-[(3-thienyl)methylideneamino]ethyl}amine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o2739-o2740.	0.2	2
69	Precursory Ag-bipyridine 2D coordination polymer: a new and efficient route for the synthesis of Agnanoparticles. <i>CrystEngComm</i> , 2010, 12, 401-405.	2.6	15
70	Aryl azo imidazoles assisted assembly of anion/anion-water through salt formation. <i>CrystEngComm</i> , 2010, 12, 250-259.	2.6	21
71	3D Solid-State Network from Hierarchical Supramolecular Self-Assembly of Transition Metal Complexes of Pyridine Based Ligand. <i>Journal of Chemical Crystallography</i> , 2009, 39, 416-422.	1.1	6
72	An efficient phosphate sensor: tripodal quinoline excimer transduction. <i>Tetrahedron</i> , 2009, 65, 2196-2200.	1.9	47

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73	Aromatic guest inclusion by a tripodal ligand: Fluorescence and structural studies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 197, 149-155.	3.9	12
74	Tripodal naphthalene ether ligand: Solid-state anion recognition and fluorescence studies. <i>Journal of Molecular Structure</i> , 2008, 879, 88-95.	3.6	13
75	Molecular to Supramolecular Structure: Influence of Coordination Environment in Azo-dye Complexes. <i>Crystal Growth and Design</i> , 2008, 8, 3107-3113.	3.0	18
76	Reduction of Coordinated Acetonitrile to Ethylamine in a Ruthenium Complex by p-Phenylenediamine or Hydroquinone. <i>Organometallics</i> , 2008, 27, 6403-6404.	2.3	6
77	Molecular, supramolecular structure and catalytic activity of transition metal complexes of phenoxy acetic acid derivatives. <i>Polyhedron</i> , 2007, 26, 5225-5234.	2.2	33
78	Solid State Synthesis and Hierarchical Supramolecular Self-assembly of Organic Salt Cocrystals. <i>Journal of Chemical Crystallography</i> , 2007, 37, 807-816.	1.1	14
79	A one-pot synthesis and self-assembled superstructure of organic salts of a 1,5-benzodiazepine derivative. <i>Tetrahedron Letters</i> , 2006, 47, 3135-3138.	1.4	34