

Anjali Pal

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8012231/anjali-pal-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

7,033
citations

36
h-index

83
g-index

117
ext. papers

7,728
ext. citations

5
avg, IF

6.52
L-index

#	Paper	IF	Citations
114	Photochemical green synthesis of calcium-alginate-stabilized Ag and Au nanoparticles and their catalytic application to 4-nitrophenol reduction. <i>Langmuir</i> , 2010 , 26, 2885-93	4	813
113	Silver nanoparticle catalyzed reduction of aromatic nitro compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 196, 247-257	5.1	758
112	Synthesis and Size-Selective Catalysis by Supported Gold Nanoparticles: Study on Heterogeneous and Homogeneous Catalytic Process. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4596-4605	3.8	688
111	Nitroarene reduction: a trusted model reaction to test nanoparticle catalysts. <i>Chemical Communications</i> , 2015 , 51, 9410-31	5.8	537
110	Catalytic Reduction of Aromatic Nitro Compounds by Coinage Metal Nanoparticles. <i>Langmuir</i> , 2001 , 17, 1800-1802	4	491
109	Photocatalytic degradation of a mixture of Crystal Violet (Basic Violet 3) and Methyl Red dye in aqueous suspensions using Ag ⁺ doped TiO ₂ . <i>Dyes and Pigments</i> , 2006 , 69, 224-232	4.6	238
108	Size Regime Dependent Catalysis by Gold Nanoparticles for the Reduction of Eosin. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 9266-9272	3.4	225
107	Size Controlled Synthesis of Gold Nanoparticles using Photochemically Prepared Seed Particles. <i>Journal of Nanoparticle Research</i> , 2001 , 3, 257-261	2.3	223
106	Removal of crystal violet dye from wastewater by surfactant-modified alumina. <i>Separation and Purification Technology</i> , 2005 , 44, 139-144	8.3	140
105	Photocatalytic degradation of Methyl Red dye in aqueous solutions under UV irradiation using Ag ⁺ doped TiO ₂ . <i>Desalination</i> , 2005 , 181, 91-100	10.3	139
104	Arsenic removal from real-life groundwater by adsorption on laterite soil. <i>Journal of Hazardous Materials</i> , 2008 , 151, 811-20	12.8	118
103	Preparation of nanosized gold particles in a biopolymer using UV photoactivation. <i>Journal of Colloid and Interface Science</i> , 2005 , 288, 396-401	9.3	108
102	Removal of anionic surfactant from wastewater by alumina: a case study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 254, 165-171	5.1	108
101	Tetracycline degradation in aquatic environment by highly porous MnO ₂ nanosheet assembly. <i>Chemical Engineering Journal</i> , 2015 , 276, 155-165	14.7	96
100	Synergistically improved adsorption of anionic surfactant and crystal violet on chitosan hydrogel beads. <i>Chemical Engineering Journal</i> , 2013 , 217, 426-434	14.7	93
99	Nano silver impregnation on commercial TiO ₂ and a comparative photocatalytic account to degrade malachite green. <i>Separation and Purification Technology</i> , 2012 , 89, 147-159	8.3	72
98	2D materials for renewable energy storage devices: Outlook and challenges. <i>Chemical Communications</i> , 2016 , 52, 13528-13542	5.8	71

97	Surfactant-modified chitosan beads for cadmium ion adsorption. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1548-1555	7.9	70
96	Removal of phenol from water environment by surfactant-modified alumina through adsolubilization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 277, 63-68	5.1	68
95	Remarkable Facet Selective Reduction of 4-Nitrophenol by Morphologically Tailored (111) Faceted CuO Nanocatalyst. <i>ACS Omega</i> , 2017 , 2, 1968-1984	3.9	67
94	Fixed bed column study for the removal of crystal violet (C. I. Basic Violet 3) dye from aquatic environment by surfactant-modified alumina. <i>Dyes and Pigments</i> , 2006 , 69, 245-251	4.6	66
93	Silver nanoparticle aggregate formation by a photochemical method and its application to SERS analysis <i>Journal of Raman Spectroscopy</i> , 1999 , 30, 199-204	2.3	61
92	Green and efficient biosorptive removal of methylene blue by <i>Abelmoschus esculentus</i> seed: Process optimization and multi-variate modeling. <i>Journal of Environmental Management</i> , 2017 , 200, 145-159	7.9	59
91	Microporous assembly of MnO ₂ nanosheets for malachite green degradation. <i>Separation and Purification Technology</i> , 2014 , 134, 26-36	8.3	57
90	Alginate Gel-Mediated Photochemical Growth of Mono- and Bimetallic Gold and Silver Nanoclusters and Their Application to Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7553-7560	3.8	53
89	Applications of chitosan in environmental remediation: A review. <i>Chemosphere</i> , 2021 , 266, 128934	8.4	52
88	UV induced degradation of herbicide 2,4-D: kinetics, mechanism and effect of various conditions on the degradation. <i>Separation and Purification Technology</i> , 2005 , 44, 121-129	8.3	51
87	Detached leaf culture: viability to evaluate 2,4-D toxicity symptoms in cotton apex leaves. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2005 , 40, 167-70	2.3	49
86	Liquor ammonia mediated V(V) insertion in thin Co ₃ O ₄ sheets for improved pseudocapacitors with high energy density and high specific capacitance value. <i>Chemical Communications</i> , 2015 , 51, 15986-9	5.8	47
85	Methylene Blue/Cu ₂ O Reaction Made Easy in Acidic Medium. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25741-25747	3.8	47
84	Removal of phenol from aquatic environment by SDS-modified alumina: Batch and fixed bed studies. <i>Separation and Purification Technology</i> , 2006 , 50, 256-262	8.3	46
83	Utilization of silica gel waste for adsorption of cationic surfactant and adsolubilization of organics from textile wastewater: A case study. <i>Desalination</i> , 2011 , 276, 142-147	10.3	44
82	New hydrothermal process for hierarchical TiO ₂ nanostructures. <i>CrystEngComm</i> , 2009 , 11, 1210	3.3	44
81	Suitable Morphology Makes CoSn(OH) ₆ Nanostructure a Superior Electrochemical Pseudocapacitor. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17987-98	9.5	43
80	Synergism of gold and silver invites enhanced fluorescence for practical applications. <i>RSC Advances</i> , 2016 , 6, 17683-17703	3.7	38

79	Investigation on the adsorption of Mn(II) on surfactant-modified alumina: Batch and column studies. <i>Journal of Environmental Chemical Engineering</i> , 2014 , 2, 2295-2305	6.8	36
78	Surfactant-modified alumina: an efficient adsorbent for malachite green removal from water environment. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009 , 44, 896-905	2.3	34
77	Synthesis and characterization of SERS gene probe for BRCA-1 (breast cancer). <i>Faraday Discussions</i> , 2006 , 132, 293-301; discussion 309-19	3.6	34
76	Decoration of Fe ₃ O ₄ Base Material with Pd Loaded CdS Nanoparticle for Superior Photocatalytic Efficiency. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11485-11494	3.8	33
75	Graphitic carbon nitride based Z scheme photocatalysts: Design considerations, synthesis, characterization and applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 79, 383-408	6.3	31
74	Fluorescent Au(I)@Ag ₂ S Nanoparticle cluster for selective sensing of mercury(II) ion. <i>Dalton Transactions</i> , 2014 , 43, 11557-65	4.3	31
73	Fabrication of a novel Bi ₂ O ₃ nanoparticle impregnated nitrogen vacant 2D g-C ₃ N ₄ nanosheet Z scheme photocatalyst for improved degradation of methylene blue dye under LED light illumination. <i>Applied Surface Science</i> , 2020 , 507, 144965	6.7	31
72	Recent advancements in visible-light-assisted photocatalytic removal of aqueous pharmaceutical pollutants. <i>Clean Technologies and Environmental Policy</i> , 2020 , 22, 11-42	4.3	30
71	Adsorbilization phenomenon perceived in chitosan beads leading to a fast and enhanced malachite green removal. <i>Chemical Engineering Journal</i> , 2016 , 290, 371-380	14.7	29
70	Arsenic removal from aqueous solutions by adsorption on laterite soil. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007 , 42, 453-62	2.3	28
69	Hierarchical growth of ZnFe ₂ O ₄ for sensing applications. <i>New Journal of Chemistry</i> , 2016 , 40, 1861-1871	3.6	27
68	Development and validation of an adsorption kinetic model at solid-liquid interface using normalized Gudermannian function. <i>Journal of Molecular Liquids</i> , 2019 , 276, 67-77	6	27
67	Redox-Mediated Synthesis of a Fe ₃ O ₄ /MnO ₂ Nanocomposite for Dye Adsorption and Pseudocapacitance. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 1571-80	4.5	26
66	Statistical modeling and performance evaluation of biosorptive removal of Nile blue A by lignocellulosic agricultural waste under the application of high-strength dye concentrations. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103677	6.8	26
65	Wet-Chemical Synthesis Of Spherical Arsenic Nanoparticles By A Simple Reduction Method And Its Characterization. <i>Advanced Materials Letters</i> , 2012 , 3, 177-180	2.4	26
64	Novel 2D/2D g-CN/BiNbOCl nano-composite for enhanced photocatalytic degradation of oxytetracycline under visible LED light irradiation. <i>Journal of Colloid and Interface Science</i> , 2021 , 584, 320-331	9.3	26
63	Degradation of textile wastewater by modified photo-Fenton process: Application of Co(II) adsorbed surfactant-modified alumina as heterogeneous catalyst. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 2886-2893	6.8	23
62	Enhanced Pb ²⁺ removal by anionic surfactant bilayer anchored on chitosan bead surface. <i>Journal of Molecular Liquids</i> , 2017 , 248, 713-724	6	23

61	Advance Aqueous Asymmetric Supercapacitor Based on Large 2D NiCoO Nanostructures and the rGO@FeO Composite. <i>ACS Omega</i> , 2017 , 2, 6576-6585	3.9	22
60	Rapid and high-performance adsorptive removal of hazardous acridine orange from aqueous environment using <i>Abelmoschus esculentus</i> seed powder: Single- and multi-parameter optimization studies. <i>Journal of Environmental Management</i> , 2018 , 217, 573-591	7.9	22
59	Surfactant modification of chitosan hydrogel beads for Ni@NiO core-shell nanoparticles formation and its catalysis to 4-nitrophenol reduction. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 1321-1329	6.8	21
58	Silver Molybdates with Intriguing Morphology and as a Peroxidase Mimic with High Sulfide Sensing Capacity. <i>Crystal Growth and Design</i> , 2017 , 17, 295-307	3.5	21
57	Cationic surfactant adsorption on silica gel and its application for wastewater treatment. <i>Desalination and Water Treatment</i> , 2010 , 22, 1-8		20
56	Photochemical synthesis of biopolymer coated Au@Ag shell type bimetallic nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2110-5	1.3	20
55	Sorption kinetics of arsenic on laterite soil in aqueous medium. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007 , 42, 989-96	2.3	20
54	Photo-Fenton process in a Co(II)-adsorbed micellar soft-template on an alumina support for rapid methylene blue degradation. <i>RSC Advances</i> , 2016 , 6, 100876-100890	3.7	20
53	Nano-Particle-Mediated Wastewater Treatment: a Review. <i>Current Pollution Reports</i> , 2017 , 3, 17-30	7.6	19
52	Adsorptive removal of Mn(II) from water and wastewater by surfactant-modified alumina. <i>Desalination and Water Treatment</i> , 2016 , 57, 2775-2786		19
51	Intriguing Fluorescence Behavior of Diiminic Schiff Bases in the Presence of in situ Produced Noble Metal Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22138-22147	3.8	19
50	Proportion of composition in a composite does matter for advanced supercapacitor behavior. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17440-17454	13	19
49	Photocatalytic CO ₂ reduction over g-C ₃ N ₄ based heterostructures: Recent progress and prospects. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104631	6.8	19
48	Treatment of real wastewater: Kinetic and thermodynamic aspects of cadmium adsorption onto surfactant-modified chitosan beads. <i>International Journal of Biological Macromolecules</i> , 2019 , 131, 1092-1100	7.9	17
47	Solar light-induced photocatalytic degradation of methyl red in an aqueous suspension of commercial ZnO: a green approach. <i>Desalination and Water Treatment</i> , 2015 , 53, 501-514		17
46	One-Pot Fabrication of Perforated Graphitic Carbon Nitride Nanosheets Decorated with Copper Oxide by Controlled Ammonia and Sulfur Trioxide Release for Enhanced Catalytic Activity. <i>ACS Omega</i> , 2018 , 3, 9318-9332	3.9	17
45	Dye removal using waste beads: Efficient utilization of surface-modified chitosan beads generated after lead adsorption process. <i>Journal of Water Process Engineering</i> , 2019 , 31, 100882	6.7	17
44	A soft-template mediated approach for Au(0) formation on a heterosilica surface and synergism in the catalytic reduction of 4-nitrophenol. <i>RSC Advances</i> , 2015 , 5, 78006-78016	3.7	16

43	Fixed-bed column study on removal of Mn(II), Ni(II) and Cu(II) from aqueous solution by surfactant bilayer supported alumina. <i>Separation Science and Technology</i> , 2016 , 51, 1287-1298	2.5	15
42	3D macroporous architecture of self-assembled defect-engineered ultrathin g-C ₃ N ₄ nanosheets for tetracycline degradation under LED light irradiation. <i>Materials Research Bulletin</i> , 2021 , 133, 111074	5.1	15
41	Defect engineered mesoporous 2D graphitic carbon nitride nanosheet photocatalyst for rhodamine B degradation under LED light illumination. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 397, 112582	4.7	14
40	Adsorptive removal of Cu(II) and Ni(II) from single-metal, binary-metal, and industrial wastewater systems by surfactant-modified alumina. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2015 , 50, 385-95	2.3	14
39	Shape-controlled Synthesis of Gold Nanoparticles from Gold(III)-chelates of β -diketones. <i>Journal of Nanoparticle Research</i> , 2005 , 7, 641-650	2.3	14
38	Orange-red silver emitters for sensing application and bio-imaging. <i>Dalton Transactions</i> , 2015 , 44, 11457-11469	4.9	13
37	Preparation of Ultrafine Colloidal Gold Particles using a Bioactive Molecule. <i>Journal of Nanoparticle Research</i> , 2004 , 6, 27-34	2.3	13
36	Supported metal and metal oxide particles with proximity effect for catalysis.. <i>RSC Advances</i> , 2020 , 10, 35449-35472	3.7	13
35	Novel Arsenic Nanoparticles Are More Effective and Less Toxic than As (III) to Inhibit Extracellular and Intracellular Proliferation of <i>Leishmania donovani</i> . <i>Journal of Parasitology Research</i> , 2014 , 2014, 187640	1.9	11
34	Methyl red degradation under UV illumination and catalytic action of commercial ZnO: a parametric study. <i>Desalination and Water Treatment</i> , 2015 , 56, 1066-1076		10
33	Tin/Indium nanobundle formation from aggregation or growth of nanoparticles. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 41-46	2.3	10
32	Modeling and fixed bed column adsorption of As(V) on laterite soil. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007 , 42, 1585-93	2.3	10
31	Behaviour of fixed-bed column for the adsorption of malachite green on surfactant-modified alumina. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009 , 44, 265-72	2.3	9
30	Removal kinetics and mechanism for phenol uptake by surfactant-modified alumina. <i>Desalination and Water Treatment</i> , 2009 , 6, 269-275		9
29	Photo-Fenton process in Co(II)-adsorbed admicellar soft-template on alumina support for methyl orange degradation. <i>Catalysis Today</i> , 2020 , 348, 212-222	5.3	9
28	Application of response surface methodology to evaluate the removal efficiency of Mn(II), Ni(II), and Cu(II) by surfactant-modified alumina. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 1003-1020	4.3	9
27	Surfactant bilayer on chitosan bead surface for enhanced Ni(II) adsorption. <i>Sustainable Materials and Technologies</i> , 2018 , 18, e00077	5.3	8
26	Galvanic replacement of As(0) nanoparticles by Au(III) for nanogold fabrication and SERS application. <i>New Journal of Chemistry</i> , 2014 , 38, 1675	3.6	7

25	Adsorption of 2,4-D Herbicide from Water Environment on Modified Silica Gel Factory Waste. <i>Water Environment Research</i> , 2013 , 85, 2147-2156	2.8	7
24	Adsorption Based Technologies for Arsenic Removal from Aqueous Environment: A Review. <i>Recent Patents on Engineering</i> , 2010 , 4, 92-101	0.3	7
23	Surfactant Adsorption on Solid Surfaces and Further Application to Adsolubilization: A Comprehensive Review. <i>Recent Patents on Engineering</i> , 2013 , 7, 167-181	0.3	7
22	Benzophenone assisted UV-activated synthesis of unique Pd-nanodendrite embedded reduced graphene oxide nanocomposite: a catalyst for C-C coupling reaction and fuel cell.. <i>RSC Advances</i> , 2019 , 9, 21329-21343	3.7	6
21	Arsenate stabilized Cu ⁰ nanoparticle catalyst for one-electron transfer reversible reaction. <i>Dalton Transactions</i> , 2014 , 43, 6677-83	4.3	6
20	Utilization of Lignocellulosic Waste for Acridine Orange Uptake: Insights into Multiparameter Isotherms Modeling with ANN-Aimed Formulation. <i>Journal of Environmental Engineering, ASCE</i> , 2020 , 146, 04020096	2	5
19	Solid-Phase Extraction of Cu(II) from Aqueous Solution Using Surfactant-Modified Alumina. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2017 , 21, 04016017	2.3	5
18	Degradation of tetracycline antibiotics by advanced oxidation processes: application of MnO ₂ nanomaterials. <i>Natural Resources & Engineering</i> , 2017 , 2, 32-42		5
17	Time and temperature dependent formation of hollow gold nanoparticles via galvanic replacement reaction of As(0) and its catalytic application. <i>MRS Communications</i> , 2019 , 9, 270-279	2.7	5
16	Enhanced adsorption of gentian violet dye from water using lignocellulosic agricultural waste modified with di- and tri-carboxylic acids: Artificial intelligence modeling, practical comprehension, mechanistic and regeneration analyses. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105578	6.8	5
15	Spectrophotometric determination of cationic surfactants in aqueous media using chrome azurol S as colour forming agent and 1-butanol as extracting solvent. <i>Talanta</i> , 2020 , 206, 120238	6.2	4
14	Application of biopolymers as a new age sustainable material for surfactant adsorption: A brief review. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021 , 2, 100145	1.7	4
13	Lead Cleanup from Environment using Altered form of Chitosan: A Review. <i>Recent Patents on Engineering</i> , 2018 , 12, 175-185	0.3	3
12	Insight into the multiple roles of nitrogen doped carbon quantum dots in an ultrathin 2D-0D-2D all-solid-state Z scheme heterostructure and its performance in tetracycline degradation under LED illumination. <i>Chemical Engineering Journal</i> , 2021 , 431, 133914	14.7	2
11	2D-Bi ₄ NbO ₈ Cl nanosheet for efficient photocatalytic degradation of tetracycline in synthetic and real wastewater under visible-light: Influencing factors, mechanism and degradation pathway. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163400	5.7	2
10	Batch and Continuous Fixed-Bed Column Adsorption for the Removal of Ni (II) from Aqueous Solutions using Surfactant-Treated Alumina. <i>Recent Patents on Engineering</i> , 2016 , 10, 36-50	0.3	2
9	Iron oxide-loaded alginate-bentonite hydrogel beads as a green and sustainable catalyst for 4-nitrophenol reduction. <i>Materials Today Communications</i> , 2021 , 28, 102588	2.5	2
8	Aggregation of nitroaniline in tetrahydrofuran through intriguing H-bond formation by sodium borohydride. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 12865-74	3.6	1

7	Application of silica gel factory waste for methyl orange dye removal. <i>International Journal of Environment and Waste Management</i> , 2014 , 13, 37	0.9	1
6	Arsenic Nanoparticles are Effective in Reducing 3-Methylcholanthrene Induced Carcinogenesis in Murine Fibrosarcoma by Promoting Anti-tumorigenic Inflammation. <i>BioNanoScience</i> ,	3.4	1
5	Immobilization of size variable Au nanoparticles on surfactant-modified silica and their catalytic application toward 4-nitrophenol reduction: A comparative account of catalysis. <i>Surfaces and Interfaces</i> , 2021 , 26, 101423	4.1	1
4	Silver nanoparticle aggregate formation by a photochemical method and its application to SERS analysis 1999 , 30, 199		1
3	Electrochemical aspects of coinage metal nanoparticles for catalysis and spectroscopy.. <i>RSC Advances</i> , 2022 , 12, 12116-12135	3.7	1
2	Bimetallic Nanoparticles: Synthesis and Characterization 2017 , 79-96		
1	Alteration in Inflammasome Cytokine Profile and Functional Plasticity of Macrophage Phenotype in Arsenic(0) Nanoparticle Treated Murine Fibrosarcoma. <i>BioNanoScience</i> ,1	3.4	