

Corneliu Cojocaru

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4144203/publications.pdf>

Version: 2024-02-01

96
papers

3,076
citations

136950

32
h-index

175258

52
g-index

97
all docs

97
docs citations

97
times ranked

3384
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial neural network modeling and response surface methodology of desalination by reverse osmosis. <i>Journal of Membrane Science</i> , 2011, 368, 202-214.	8.2	179
2	Response surface modeling and optimization of copper removal from aqua solutions using polymer assisted ultrafiltration. <i>Journal of Membrane Science</i> , 2007, 298, 56-70.	8.2	127
3	Artificial neural network modeling and optimization of desalination by air gap membrane distillation. <i>Separation and Purification Technology</i> , 2012, 86, 171-182.	7.9	117
4	Experimental design and optimization of asymmetric flat-sheet membranes prepared for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2010, 351, 234-245.	8.2	114
5	Novel rare earth (RE-La, Er, Sm) metal doped ZnO photocatalysts for degradation of Congo-Red dye: Synthesis, characterization and kinetic studies. <i>Journal of Environmental Management</i> , 2019, 239, 225-234.	7.8	110
6	Preparation of La doped ZnO ceramic nanostructures by electrospinning+calcination method: Effect of La ³⁺ doping on optical and photocatalytic properties. <i>Applied Surface Science</i> , 2019, 476, 16-27.	6.1	110
7	Modeling and optimization of tartaric acid reactive extraction from aqueous solutions: A comparison between response surface methodology and artificial neural network. <i>Separation and Purification Technology</i> , 2010, 75, 273-285.	7.9	105
8	Application of Response Surface Methodology and Experimental Design in Direct Contact Membrane Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 5673-5685.	3.7	102
9	Artificial neural network model for desalination by sweeping gas membrane distillation. <i>Desalination</i> , 2013, 308, 102-110.	8.2	90
10	Removal of cobalt ions from aqueous solutions by polymer assisted ultrafiltration using experimental design approach. part 1: Optimization of complexation conditions. <i>Journal of Hazardous Materials</i> , 2009, 169, 599-609.	12.4	88
11	Peat-based sorbents for the removal of oil spills from water surface: Application of artificial neural network modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 675-684.	4.7	86
12	Air gap membrane distillation: Desalination, modeling and optimization. <i>Desalination</i> , 2012, 287, 138-145.	8.2	86
13	Remarkable catalytic properties of rare-earth doped nickel ferrites synthesized by sol-gel auto-combustion with maleic acid as fuel for CWPO of dyes. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 21-32.	20.2	78
14	Modeling and optimization of sweeping gas membrane distillation. <i>Desalination</i> , 2012, 287, 159-166.	8.2	73
15	Response surface optimization of the photocatalytic decolorization of a simulated dyestuff effluent. <i>Chemical Engineering Journal</i> , 2008, 141, 18-26.	12.7	71
16	Biosorption of copper(II) ions from aqua solutions using dried yeast biomass. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 335, 181-188.	4.7	70
17	Optimized photocatalytic degradation of Alcian Blue 8 GX in the presence of TiO ₂ suspensions. <i>Journal of Hazardous Materials</i> , 2007, 144, 265-273.	12.4	66
18	Response surface modelling and optimization in pervaporation. <i>Journal of Membrane Science</i> , 2008, 321, 272-283.	8.2	63

#	ARTICLE	IF	CITATIONS
19	Design of experiments for statistical modeling and multi-response optimization of nickel electroplating process. <i>Chemical Engineering Research and Design</i> , 2011, 89, 136-147.	5.6	58
20	Design and evaluation of electrospun polysulfone fibers and polysulfone/NiFe ₂ O ₄ nanostructured composite as sorbents for oil spill cleanup. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 70, 267-281.	5.3	55
21	Optimization of solar-powered reverse osmosis desalination pilot plant using response surface methodology. <i>Desalination</i> , 2010, 261, 284-292.	8.2	52
22	Electrospun PVDF fibers and a novel PVDF/CoFe ₂ O ₄ fibrous composite as nanostructured sorbent materials for oil spill cleanup. <i>Applied Surface Science</i> , 2017, 424, 389-396.	6.1	52
23	Studies on pervaporation separation of acetone, acetonitrile and ethanol from aqueous solutions. <i>Separation and Purification Technology</i> , 2008, 63, 303-310.	7.9	45
24	Nanosized Spinel Ferrites Synthesized by Sol-Gel Autocombustion for Optimized Removal of Azo Dye from Aqueous Solution. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-13.	2.7	45
25	Experimental design and optimization of leaching process for recovery of valuable chemical elements (U, La, V, Mo, Yb and Th) from low-grade uranium ore. <i>Journal of Hazardous Materials</i> , 2014, 275, 136-145.	12.4	40
26	Chitosan-based magnetic adsorbent for removal of water-soluble anionic dye: Artificial neural network modeling and molecular docking insights. <i>International Journal of Biological Macromolecules</i> , 2019, 123, 587-599.	7.5	39
27	Response surface methodology applied for Orange II photocatalytic degradation in TiO ₂ aqueous suspensions. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1454-1465.	3.2	38
28	Performances of clay aerogel polymer composites for oil spill sorption: Experimental design and modeling. <i>Separation and Purification Technology</i> , 2014, 133, 260-275.	7.9	37
29	Modeling and multi-response optimization of pervaporation of organic aqueous solutions using desirability function approach. <i>Journal of Hazardous Materials</i> , 2009, 167, 52-63.	12.4	35
30	Removal of cobalt ions from aqueous solutions by polymer assisted ultrafiltration using experimental design approach. <i>Journal of Hazardous Materials</i> , 2009, 169, 610-620.	12.4	35
31	Sweeping gas membrane distillation of sucrose aqueous solutions: Response surface modeling and optimization. <i>Separation and Purification Technology</i> , 2011, 81, 12-24.	7.9	35
32	Hollow fiber spinning experimental design and analysis of defects for fabrication of optimized membranes for membrane distillation. <i>Desalination</i> , 2012, 287, 146-158.	8.2	33
33	Photocatalytic and antimicrobial activity of electrospun ZnO:Ag nanostructures. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155144.	5.5	33
34	Novel electrospun membranes based on PVDF fibers embedding lanthanide doped ZnO for adsorption and photocatalytic degradation of dye organic pollutants. <i>Materials Research Bulletin</i> , 2021, 141, 111376.	5.2	29
35	New La ³⁺ doped TiO ₂ nanofibers for photocatalytic degradation of organic pollutants: Effects of thermal treatment and doping loadings. <i>Ceramics International</i> , 2022, 48, 4953-4964.	4.8	29
36	Novel fibrous composites based on electrospun PSF and PVDF ultrathin fibers reinforced with inorganic nanoparticles: Evaluation as oil spill sorbents. <i>Polymers for Advanced Technologies</i> , 2018, 29, 1435-1446.	3.2	28

#	ARTICLE	IF	CITATIONS
37	Optimization of Co ²⁺ ions removal from water solutions via polymer enhanced ultrafiltration with application of PVA and sulfonated PVA as complexing agents. <i>Journal of Colloid and Interface Science</i> , 2011, 362, 615-624.	9.4	24
38	Surface hydrophobization of polyester fibers with poly(methylhydro-dimethyl)siloxane copolymers: Experimental design for testing of modified nonwoven materials as oil spill sorbents. <i>Polymer Testing</i> , 2017, 59, 377-389.	4.8	22
39	Optimization of Polyplex Formation between DNA Oligonucleotide and Poly(ε-Lysine): Experimental Study and Modeling Approach. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1291.	4.1	22
40	Experimental design for modelling and multi-response optimization of Fe-Ni electroplating process. <i>Chemical Engineering Research and Design</i> , 2015, 96, 138-149.	5.6	21
41	Novel Synthesis Route for Chitosan-Coated Zinc Ferrite Nanoparticles as Potential Sorbents for Wastewater Treatment. <i>Chemical Engineering Communications</i> , 2016, 203, 1591-1599.	2.6	20
42	Molecular structure and modeling studies of azobenzene derivatives containing maleimide groups. <i>SpringerPlus</i> , 2013, 2, 586.	1.2	19
43	Pyridyl-indolizine derivatives as DNA binders and pH-sensitive fluorescent dyes. <i>Tetrahedron</i> , 2016, 72, 8215-8222.	1.9	19
44	Solvatochromic analysis and DFT computational study of an azomaleimide derivative. <i>Journal of Molecular Liquids</i> , 2017, 240, 476-485.	4.9	19
45	Synthesis, structural characterization and quantum chemical studies of silicon-containing benzoic acid derivatives. <i>Journal of Molecular Structure</i> , 2016, 1120, 302-316.	3.6	18
46	Innovative Ag-TiO ₂ Nanofibers with Excellent Photocatalytic and Antibacterial Actions. <i>Catalysts</i> , 2021, 11, 1234.	3.5	18
47	Flexible cyclic siloxane core enhances the transfection efficiency of polyethylenimine-based non-viral gene vectors. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8250-8267.	5.8	17
48	Novel chitosan-functionalized samarium-doped cobalt ferrite for adsorptive removal of anionic dye from aqueous solutions. <i>Comptes Rendus Chimie</i> , 2017, 20, 1026-1036.	0.5	17
49	Chitosan-Sulfated Titania Composite Membranes with Potential Applications in Fuel Cell: Influence of Cross-Linker Nature. <i>Polymers</i> , 2020, 12, 1125.	4.5	17
50	Optimized formulation of NiFe ₂ O ₄ @Ca-alginate composite as a selective and magnetic adsorbent for cationic dyes: Experimental and modeling study. <i>Reactive and Functional Polymers</i> , 2018, 125, 57-69.	4.1	16
51	Porous polymer/inorganic composite matrices as efficient desiccants for air dehumidification. <i>Applied Surface Science</i> , 2019, 487, 1189-1197.	6.1	16
52	Response surface methodology for the modelling of Sr adsorption on zeolite 3A and pumice. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 51-59.	2.2	15
53	EQUILIBRIUM ISOTHERMS STUDIES FOR SORPTION OF LEAD IONS FROM AQUEOUS SOLUTIONS USING ROMANIAN PEAT SORBENT. <i>Environmental Engineering and Management Journal</i> , 2007, 6, 425-430.	0.6	15
54	Cu/TiO ₂ composite nanofibers with improved photocatalytic performance under UV and UV-visible light irradiation. <i>Surfaces and Interfaces</i> , 2022, 28, 101644.	3.0	14

#	ARTICLE	IF	CITATIONS
55	Novel cyclodextrin-based pH-sensitive supramolecular host-guest assembly for staining acidic cellular organelles. <i>Polymer Chemistry</i> , 2018, 9, 968-975.	3.9	13
56	Photocatalytic Activity of ZnO-SnO ₂ Ceramic Nanofibers for RhB Dye Degradation: Experimental Design, Modeling, and Process Optimization. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800474.	1.5	13
57	REDUCING ENVIRONMENTAL RISK OF LANDFILLS: LEACHATE TREATMENT BY REVERSE OSMOSIS. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 2319-2331.	0.6	13
58	Baltic <i>Fucus vesiculosus</i> as potential bio-sorbent for Zn removal: Mechanism insight. <i>Chemosphere</i> , 2020, 238, 124652.	8.2	12
59	Photochromic properties of some azomaleimide derivatives and DFT quantum chemical study of thermal cis-trans isomerization pathways. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 390, 112300.	3.9	12
60	Development of Porous Titania Structure with Improved Photocatalytic Activity: Response Surface Modeling and Multi-Objective Optimization. <i>Nanomaterials</i> , 2020, 10, 998.	4.1	12
61	Polymer assisted ultrafiltration of AO7 anionic dye from aqueous solutions: Experimental design, multivariate optimization, and molecular docking insights. <i>Journal of Membrane Science</i> , 2020, 604, 118054.	8.2	12
62	Boosting catalytic wet-peroxide-oxidation performances of cobalt ferrite by doping with lanthanides for organic pollutants degradation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104961.	6.7	12
63	Tuning of Sm ³⁺ and Er ³⁺ -doped TiO ₂ nanofibers for enhancement of the photocatalytic performance: Optimization of the photodegradation conditions. <i>Journal of Environmental Management</i> , 2022, 316, 115317.	7.8	12
64	Binding assessment of methylene blue to human serum albumin and poly(acrylic acid): Experimental and computer-aided modeling studies. <i>Journal of Molecular Liquids</i> , 2019, 285, 811-821.	4.9	11
65	Bichromophoric pyrazoline derivative with solvent-selective photoluminescence quenching. <i>Journal of Molecular Liquids</i> , 2019, 278, 156-163.	4.9	11
66	Molecular structure and electronic properties of pyridylindolizine derivative containing phenyl and phenacyl groups: Comparison between semi-empirical calculations and experimental studies. <i>Journal of Molecular Structure</i> , 2013, 1034, 162-172.	3.6	10
67	Chemical kinetic model for methylurea nitrosation reaction: Computer-aided solutions to inverse and direct problems. <i>Chemical Engineering Journal</i> , 2013, 217, 385-397.	12.7	10
68	Graphical Methodology of Global Pollution Index for the Environmental Impact Assessment Using Two Environmental Components. <i>Sustainability</i> , 2017, 9, 593.	3.2	10
69	Multi-Objective Optimization of Indigo Carmine Removal by an Electrocoagulation/GAC Coupling Process in a Batch Reactor. <i>Separation Science and Technology</i> , 2014, 49, 924-938.	2.5	9
70	Experimental design, modeling and optimization of polyplex formation between DNA oligonucleotides and branched polyethylenimine. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 9445-9456.	2.8	9
71	Pyrazoline based chloride sensor for body fluids screening. <i>Journal of Molecular Liquids</i> , 2019, 284, 139-146.	4.9	8
72	New 2,9-disubstituted-1,10-phenanthroline derivatives with anticancer activity by selective targeting of telomeric G-quadruplex DNA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 249, 119318.	3.9	8

#	ARTICLE	IF	CITATIONS
73	Artificial neural network and molecular modeling for assessing the adsorption performance of a hybrid alginate-based adsorbent. <i>Journal of Molecular Liquids</i> , 2021, 337, 116406.	4.9	8
74	Cyclodextrin Encapsulated pH Sensitive Dyes as Fluorescent Cellular Probes: Self-Aggregation and In Vitro Assessments. <i>Molecules</i> , 2020, 25, 4397.	3.8	7
75	Data-driven modeling and optimization of oil spill sorption by wool fibers: retention kinetics and recovery by centrifugation. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 367-378.	3.5	7
76	Nano-assembled oligosilane-pyrazoline structures and their optical properties. <i>Journal of Molecular Liquids</i> , 2020, 303, 112657.	4.9	6
77	Chitosan-Based Therapeutic Systems for Superficial Candidiasis Treatment. Synergetic Activity of Nystatin and Propolis. <i>Polymers</i> , 2022, 14, 689.	4.5	6
78	Synthesis, structure, computational modeling, and biological activity of two novel bimesitylene derivatives. <i>Research on Chemical Intermediates</i> , 2019, 45, 453-469.	2.7	5
79	The use of C1 symmetry imidazole-carboxylate building block and auxiliary acetate co-ligand for assembly of a 2D wave-like zinc(II) coordination polymer: experimental and theoretical study. <i>Journal of Coordination Chemistry</i> , 2020, 73, 2250-2264.	2.2	5
80	Nano-assembly and optical properties of difluoroboron dibenzoylmethane-polysilane. <i>Polymer</i> , 2021, 232, 124188.	3.8	5
81	Investigation of a biosystem based on <i>Arthrospira platensis</i> for air revitalisation in spacecrafts: Performance evaluation through response surface methodology. <i>Chemosphere</i> , 2021, 264, 128465.	8.2	4
82	MODELING AND OPTIMIZATION OF DIESEL OIL SPILL REMOVAL FROM WATER SURFACE USING SHREDDED STRIPS OF POLYPROPYLENE AS SORBENT. <i>Environmental Engineering and Management Journal</i> , 2003, 2, 145-154.	0.6	4
83	OPTIMIZATION OF PROCESS VARIABLES FOR CADMIUM REMOVAL FROM SYNTHETIC WASTEWATERS BY SPHAGNUM MOSS PEAT. <i>Environmental Engineering and Management Journal</i> , 2009, 8, 225-231.	0.6	4
84	Innovative nanostructured magnetite/wool/polysiloxane composite as magnetic adsorbent for oil spill removal. <i>Comptes Rendus Chimie</i> , 2022, 25, 245-260.	0.5	4
85	Computational Study of the Electronic Absorption Spectra of Polyhydrosilanes. <i>Silicon</i> , 2015, 7, 343-349.	3.3	3
86	Dual-emissive polydiphenylsilane nanocomposite: effect of N,N' -bis(4-hydroxysalicylidene)-1,2-phenylenediamine-Zn complex. <i>Polymers for Advanced Technologies</i> , 2016, 27, 115-124.	1.2	3
87	Synthesis of benzaldehyde-grafted polysilane: A highly stable and selective "turn-on" fluorescent sensor for cytosine. <i>Journal of Molecular Liquids</i> , 2021, 326, 115300.	4.9	3
88	Bio-based ionically cross-linked alginate composites for PEMFC potential applications. <i>Reactive and Functional Polymers</i> , 2021, 165, 104967.	4.1	3
89	OPTIMIZATION OF PROCESS VARIABLES TO MAXIMIZE THE COPPER LOADING CAPACITY OF PUROLITE S930 RESIN. <i>Environmental Engineering and Management Journal</i> , 2009, 8, 1413-1419.	0.6	3
90	Thermodegradability of soluble polydiphenylsilane copolymers. <i>Polymer Degradation and Stability</i> , 2014, 107, 82-90.	5.8	1

#	ARTICLE	IF	CITATIONS
91	Polymer engineering focusing on DRUG/GENE delivery and tissue engineering. , 2015, , .		1
92	Di-topic hybrid ligands with an isoxazole ring in the central unit: Synthesis, structural characterization and molecular modeling. Journal of Molecular Structure, 2021, 1245, , 131129.	3.6	1
93	A STUDY CONCERNING DIESEL BIODEGRADATION IN LIQUID MEDIUM, BY BIOAUGMENTATION, USING A PSEUDOMONAS SP. STRAIN. Environmental Engineering and Management Journal, 2009, 8, 549-552.	0.6	1
94	Application of Low-Cost Sorbent for Oil Spill Sorption Using Response Surface Methodological Approach. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 109-118.	0.2	1
95	Molecular Dynamics Simulations and in silico Analysis of Supramolecular Self-assembled Structures. , 2021, , 357-371.		0
96	Influence of fuel nature on sol-gel microwave-ignited combustion synthesis of nanosized cobalt and nickel spinel ferrites. Comptes Rendus Chimie, 2022, 25, 189-202.	0.5	0