Shahin Ahmadi

List of Publications by Year
in descending order

67 papers	1,702 citations	279798 23 h-index	345221 36 g-index
68 all docs	68 docs citations	68 times ranked	1227 citing authors

#	Article	IF	Citations
1	Modeling of adsorption of Methylene Blue dye on Ho-CaWO4 nanoparticles using Response Surface Methodology (RSM) and Artificial Neural Network (ANN) techniques. MethodsX, 2019, 6, 1779-1797.	1.6	122
2	Mathematical modeling of cytotoxicity of metal oxide nanoparticles using the index of ideality correlation criteria. Chemosphere, 2020, 242, 125192.	8.2	76
3	Green synthesis of zero-valent iron nanoparticles and loading effect on activated carbon for furfural adsorption. Chemosphere, 2022, 287, 132114.	8.2	75
4	Simultaneous determination of copper, nickel, cobalt and zinc using zincon as a metallochromic indicator with partial least squares. Analytica Chimica Acta, 2003, 487, 181-188.	5.4	71
5	Acid Dye Removal from Aqueous Solution by Using Neodymium(III) Oxide Nanoadsorbents. Nanomaterials, 2020, 10, 556.	4.1	67
6	Study survey of cupric oxide nanoparticles in removal efficiency of ciprofloxacin antibiotic from aqueous solution: adsorption isotherm study. , 0, , 297-303.		60
7	Adsorptive removal of phenol and aniline by modified bentonite: adsorption isotherm and kinetics study. Applied Water Science, 2018, 8, 1.	5.6	56
8	Adsorption of arsenic (V) from aqueous solution using modified saxaul ash: isotherm and thermodynamic study. Applied Water Science, 2019, 9, 1.	5.6	52
9	Application of response surface methodology in the degradation of Reactive Blue 19 using H2O2/MgO nanoparticles advanced oxidation process. International Journal of Industrial Chemistry, 2018, 9, 241-253.	3.1	45
10	The application of thermally activated persulfate for degradation of Acid Blue 92 in aqueous solution. International Journal of Industrial Chemistry, 2019, 10, 249-260.	3.1	45
11	Prediction of the adsorption coefficients of some aromatic compounds on multi-wall carbon nanotubes by the Monte Carlo method. SAR and QSAR in Environmental Research, 2018, 29, 895-909.	2.2	42
12	Novel electrochemical sensor based on modified glassy carbon electrode with graphene quantum dots, chitosan and nickel molybdate nanocomposites for diazinon and optimal design by the Taguchi method. Microchemical Journal, 2021, 160, 105628.	4.5	41
13	Hydrothermal synthesis of LaFeO3 nanoparticles adsorbent: Characterization and application of error functions for adsorption of fluoride. MethodsX, 2020, 7, 100786.	1.6	39
14	Determination of Acidity Constants of 4-(2-Pyridylazo)resorcinol in Binary Acetonitrile + Water Mixtures. Journal of Chemical & Engineering Data, 2003, 48, 1178-1182.	1.9	36
15	Predictive QSAR modeling for the antioxidant activity of natural compounds derivatives based on Monte Carlo method. Molecular Diversity, 2021, 25, 87-97.	3.9	35
16	Increasing the electrical efficiency and thermal management of a photovoltaic module using expanded graphite (EG)/paraffin-beef tallow-coconut oil composite as phase change material. Renewable Energy, 2021, 178, 25-49.	8.9	35
17	Prediction of chalcone derivative cytotoxicity activity against MCF-7 human breast cancer cell by Monte Carlo method. Journal of Molecular Structure, 2019, 1181, 305-311.	3.6	34
18	Correlation intensity index: mathematical modeling of cytotoxicity of metal oxide nanoparticles. Nanotoxicology, 2020, 14, 1118-1126.	3.0	34

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19	Combination of Genetic Algorithm and Partial Least Squares for Cloud Point Prediction of Nonionic Surfactants from Molecular Structures. Annali Di Chimica, 2007, 97, 69-83.	0.6	29
20	A hybrid descriptor based QSPR model to predict the thermal decomposition temperature of imidazolium ionic liquids using Monte Carlo approach. Journal of Molecular Liquids, 2021, 338, 116465.	4.9	26
21	Efficiency of sono-nano-catalytic process of magnesium oxide nanoparticle in removal of penicillin G from aqueous solution. , 0, 106, 330-335.		26
22	Spectroscopic Characterization of Thiazole Orange-3 DNA Interaction. Applied Biochemistry and Biotechnology, 2008, 149, 9-22.	2.9	25
23	The survey of application of the linear and nonlinear kinetic models for the adsorption of nickel(II) by modified multi-walled carbon nanotubes. Applied Water Science, 2019, 9, 1.	5.6	25
24	Degradation of aniline by the combined process of ultrasound and hydrogen peroxide (US/H2O2). MethodsX, 2019, 6, 492-499.	1.6	24
25	Pistachio (Pistacia vera) waste as adsorbent for wastewater treatment: a review. Biomass Conversion and Biorefinery, 2023, 13, 8793-8811.	4.6	24
26	Structure-activity relationship of the radical scavenging activities of some natural antioxidants based on the graph of atomic orbitals. Journal of Molecular Structure, 2019, 1191, 165-174.	3.6	23
27	A Monte Carlo method based QSPR model for prediction of reaction rate constants of hydrated electrons with organic contaminants. SAR and QSAR in Environmental Research, 2020, 31, 935-950.	2.2	23
28	QSAR modeling of toxicities of ionic liquids toward Staphylococcus aureus using SMILES and graph invariants. Structural Chemistry, 2020, 31, 2257-2270.	2.0	23
29	Optimization of thermal and electrical efficiencies of a photovoltaic module using combined PCMs with a thermo-conductive filler. Solar Energy, 2022, 231, 283-296.	6.1	23
30	Data on the removal of fluoride from aqueous solutions using synthesized P/Î³-Fe2O3 nanoparticles: A novel adsorbent. MethodsX, 2019, 6, 98-106.	1.6	22
31	The Monte Carlo approach to model and predict the melting point of imidazolium ionic liquids using hybrid optimal descriptors. RSC Advances, 2021, 11, 33849-33857.	3.6	22
32	Quantitative structure–property relationship study on the intercalation of anticancer drugs with ct-DNA. Medicinal Chemistry Research, 2014, 23, 1148-1161.	2.4	21
33	QSAR modelling of larvicidal phytocompounds against <i>Aedes aegypti</i> using index of ideality of correlation. SAR and QSAR in Environmental Research, 2020, 31, 717-739.	2.2	21
34	Application of GA-MLR for QSAR Modeling of the Arylthioindole Class of Tubulin Polymerization Inhibitors as Anticancer Agents. Anti-Cancer Agents in Medicinal Chemistry, 2017, 17, 552-565.	1.7	19
35	A new daily weather generator to preserve extremes and low-frequency variability. Climatic Change, 2013, 119, 631-645.	3.6	18
36	Adsorption of bovine serum albumin (BSA) by bare magnetite nanoparticles with surface oxidative impurities that prevent aggregation. Canadian Journal of Chemistry, 2019, 97, 577-583.	1.1	18

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37	Application of GA-MLR method in QSPR modeling of stability constants of diverse 15-crown-5 complexes with sodium cation. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2012, 74, 57-66.	1.6	17
38	Development of an Automatic Calibration Tool Using Genetic Algorithm for the ARNO Conceptual Rainfall-Runoff Model. Arabian Journal for Science and Engineering, 2014, 39, 2535-2549.	1.1	17
39	The index of ideality of correlation: QSAR studies of hepatitis C virus NS3/4A protease inhibitors using SMILES descriptors. SAR and QSAR in Environmental Research, 2021, 32, 495-520.	2.2	17
40	Efficacy of persulfate-based advanced oxidation process (US/PS/Fe3O4) for ciprofloxacin removal from aqueous solutions. Applied Water Science, 2020, 10, 1.	5.6	16
41	Quantitative structure–toxicity relationship models for predication of toxicity of ionic liquids toward leukemia rat cell line IPC-81 based on index of ideality of correlation. Toxicology Mechanisms and Methods, 2022, 32, 302-312.	2.7	16
42	Application of self organizing maps and GA-MLR for the estimation of stability constant of 18-crown-6 ether derivatives with sodium cation. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 79, 141-149.	1.6	15
43	Treatment of Textile Wastewater Using a Combined Coagulation and DAF Processes, Iran, 2016. , 2017, 6, 229-234.		15
44	The predictive model for band gap prediction of metal oxide nanoparticles based on quasi-SMILES. Structural Chemistry, 2021, 32, 1893-1905.	2.0	14
45	QSPR Modeling of Stability Constants of the Li-Hemispherands Complexes Using MLR: A Theoretical Host-Guest Study. Macroheterocycles, 2010, 3, 234-242.	0.5	14
46	CORAL: Quantitative Structure Retention Relationship (QSRR) of flavors and fragrances compounds studied on the stationary phase methyl silicone OV-101 column in gas chromatography using correlation intensity index and consensus modelling. Journal of Molecular Structure, 2022, 1265, 133437.	3.6	14
47	Error analysis of adsorption isotherm models for penicillin G onto magnesium oxide nanoparticles. Applied Water Science, 2019, 9, 1.	5.6	13
48	Genetic Algorithm and Self-Organizing Maps for QSPR Study of Some N-aryl Derivatives as Butyrylcholinesterase Inhibitors. Current Drug Discovery Technologies, 2016, 13, 232-253.	1.2	13
49	A QSPR Study of Association Constants of Macrocycles toward Sodium Cation. Macroheterocycles, 2012, 5, 23-31.	0.5	13
50	Survey of Efficiency of Dissolved Air Flotation in Removal Penicillin G Potassium from Aqueous Solutions. British Journal of Pharmaceutical Research, 2017, 15, 1-11.	0.4	13
51	Polypyrrole–modified magnetic nanoparticles and high–performance liquid chromatography for determination of glibenclamide from biological fluids. IET Nanobiotechnology, 2019, 13, 503-509.	3.8	12
52	Adsorption of Ciprofloxacin from Aqueous Environment by Using Synthesized Nanoceria. Ecological Chemistry and Engineering S, 2019, 26, 299-311.	1.5	11
53	SMILES-based QSAR and molecular docking study of xanthone derivatives as α-glucosidase inhibitors. Journal of Receptor and Signal Transduction Research, 2022, 42, 361-372.	2.5	11
54	QSAR Modeling of the Arylthioindole Class of Colchicine Polymerization Inhibitors as Anticancer Agents. Current Computer-Aided Drug Design, 2017, 13, 143-159.	1.2	11

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55	Polypyrroleâ€modified magnetic nanoparticles for preconcentration of atorvastatin in human serum prior to its determination using highâ€performance liquid chromatography. Micro and Nano Letters, 2018, 13, 1425-1430.	1.3	10
56	Simultaneous magnetic dispersive micro solid phase extraction of valsartan and atorvastatin using a CMC-coated Fe$_3$O$_4$ nanocomposite prior to HPLC-UV detection: multivariate optimization. New Journal of Chemistry, 2019, 43, 16950-16959.	2.8	10
57	Magnetic dispersive solid phase extraction of ZEAralenone using Fe3O4@ hydroxy propyl methyl cellulose nanocomposite from wheat flour samples prior to fluorescence determination: Multivariate optimization by Taguchi design. Microchemical Journal, 2021, 170, 106682.	4.5	10
58	Enhancing the Photocatalytic Properties of ZrO2/ZnO Nanocomposite Supported on Montmorillonite Clay for Photodegradation of Congo Red. Journal of Electronic Materials, 2021, 50, 2870-2878.	2.2	7
59	Potential of using green adsorbent of humic acid removal from aqueous solutions: equilibrium, kinetics, thermodynamic and regeneration studies. International Journal of Environmental Analytical Chemistry, 2022, 102, 5373-5390.	3.3	6
60	Effectiveness of graphene quantum dot nanoparticles in the presence of hydrogen peroxide for the removal of ciprofloxacin from aqueous media: response surface methodology. Separation Science and Technology, 2021, 56, 2124-2140.	2.5	6
61	Removal of Reactive Blue 19 Dye Using a Combined Sonochemical and Modified Pistachio Shell Adsorption Processes from Aqueous Solutions. UlÅ«m-i BihdÄshtÄ«-i ÄªrÄn, 0, , .	0.1	5
62	DFT based QSAR study on quinolone-triazole derivatives as antibacterial agents. Journal of Receptor and Signal Transduction Research, 2021, , 1-11.	2.5	5
63	The dimerization study of some cationic monomethine cyanine dyes by chemometrics method. Russian Journal of Physical Chemistry A, 2012, 86, 1974-1981.	0.6	4
64	SMILES-Based QSAR and Molecular Docking Study of Oseltamivir Derivatives as Influenza Inhibitors. Polycyclic Aromatic Compounds, 2023, 43, 3257-3277.	2.6	4
65	Preparation, Physical Characterization and Adsorption Properties of Synthesized Coâ€"Niâ€"Cr Nanocomposites for Highly Effective Removal of Nitrate: Isotherms, Kinetics and Thermodynamic Studies. Zeitschrift Fur Physikalische Chemie, 2020, 234, 45-62.	2.8	3
66	Thermotolerance and Cellulolytic Activity of Fungi Isolated from Soils/Waste Materials in the Industrial Region of Nigeria. Current Microbiology, 2021, 78, 2660-2671.	2.2	2
67	Prediction of anti-cancer activity of 1,8-naphthyridin derivatives by using of genetic algorithm-stepwise multiple linear regression. Medical Sciences Journal, 2018, 28, 181-194.	0.0	1