

# Ali Shokuhi Rad

## List of Publications by Year in descending order

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151  
papers

5,442  
citations

57631

44  
h-index

106150

65  
g-index

153  
all docs

153  
docs citations

153  
times ranked

2931  
citing authors

#	ARTICLE	IF	CITATIONS
1	First principles study of Al-doped graphene as nanostructure adsorbent for NO <sub>2</sub> and N <sub>2</sub> O: DFT calculations. Applied Surface Science, 2015, 357, 1217-1224.	3.1	189
2	Study on the adsorption properties of O <sub>3</sub> , SO <sub>2</sub> , and SO <sub>3</sub> on B-doped graphene using DFT calculations. Journal of Solid State Chemistry, 2016, 237, 204-210.	1.4	156
3	A comparative density functional theory study of guanine chemisorption on Al <sub>12</sub> N <sub>12</sub> , Al <sub>12</sub> P <sub>12</sub> , B <sub>12</sub> N <sub>12</sub> , and B <sub>12</sub> P <sub>12</sub> nano-cages. Journal of Alloys and Compounds, 2016, 672, 161-169.	2.8	151
4	Chemisorption of NO on Pt-decorated graphene as modified nanostructure media: A first principles study. Applied Surface Science, 2016, 360, 1041-1046.	3.1	145
5	Application of carbon nanostructures toward SO <sub>2</sub> and SO <sub>3</sub> adsorption: a comparison between pristine graphene and N-doped graphene by DFT calculations. Journal of Sulfur Chemistry, 2016, 37, 176-188.	1.0	129
6	Adsorption properties of SO <sub>2</sub> and O <sub>3</sub> molecules on Pt-decorated graphene: A theoretical study. Vacuum, 2016, 130, 113-118.	1.6	117
7	Ab-initio study of interaction of some atmospheric gases (SO <sub>2</sub> , NH <sub>3</sub> , H <sub>2</sub> O, CO, CH <sub>4</sub> and CO <sub>2</sub> ) with polypyrrole (3PPy) gas sensor: DFT calculations. Sensors and Actuators B: Chemical, 2015, 220, 641-651.	4.0	107
8	Density functional study of Al-doped graphene nanostructure towards adsorption of CO, CO <sub>2</sub> and H <sub>2</sub> O. Synthetic Metals, 2015, 210, 171-178.	2.1	103
9	Ni adsorption on Al <sub>12</sub> P <sub>12</sub> nano-cage: A DFT study. Journal of Alloys and Compounds, 2016, 678, 317-324.	2.8	102
10	Enhancement in hydrogen molecule adsorption on B <sub>12</sub> N <sub>12</sub> nano-cluster by decoration of nickel. International Journal of Hydrogen Energy, 2016, 41, 22182-22191.	3.8	100
11	Al-doped graphene as a new nanostructure adsorbent for some halomethane compounds: DFT calculations. Surface Science, 2016, 645, 6-12.	0.8	95
12	Adsorption of acetyl halide molecules on the surface of pristine and Al-doped graphene: Ab initio study. Applied Surface Science, 2015, 355, 233-241.	3.1	91
13	Nonlinear optical and electronic properties of Cr-, Ni-, and Ti- substituted C <sub>20</sub> fullerenes: A quantum-chemical study. Materials Research Bulletin, 2018, 97, 399-404.	2.7	91
14	Adsorption of thiophene on the surfaces of X <sub>12</sub> Y <sub>12</sub> (X = Al, B, and Y = N,P) nanoclusters; A DFT study. Journal of Molecular Liquids, 2017, 238, 303-309.	2.3	88
15	O <sub>3</sub> and SO <sub>2</sub> sensing concept on extended surface of B <sub>12</sub> N <sub>12</sub> nanocages modified by Nickel decoration: A comprehensive DFT study. Solid State Sciences, 2017, 69, 22-30.	1.5	87
16	Lewis acid-base surface interaction of some boron compounds with N-doped graphene; first principles study. Current Applied Physics, 2015, 15, 1271-1277.	1.1	85
17	Adsorption of pyrrole on Al <sub>12</sub> N <sub>12</sub> , Al <sub>12</sub> P <sub>12</sub> , B <sub>12</sub> N <sub>12</sub> , and B <sub>12</sub> P <sub>12</sub> fullerene-like nano-cages; a first principles study. Vacuum, 2016, 131, 135-141.	1.6	83
18	Al-doped graphene as modified nanostructure sensor for some ether molecules: Ab-initio study. Synthetic Metals, 2015, 209, 419-425.	2.1	80

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19	Adsorption of C <sub>2</sub> H <sub>2</sub> and C <sub>2</sub> H <sub>4</sub> on Pt-decorated graphene nanostructure: Ab-initio study. <i>Synthetic Metals</i> , 2016, 211, 115-120.	2.1	77
20	DFT calculations towards the geometry optimization, electronic structure, infrared spectroscopy and UV-vis analyses of Favipiravir adsorption on the first-row transition metals doped fullerenes; a new strategy for COVID-19 therapy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 247, 119082.	2.0	72
21	Study on the structure and electronic property of adsorbed guanine on aluminum doped graphene: First principles calculations. <i>Current Applied Physics</i> , 2016, 16, 527-533.	1.1	70
22	N-doped graphene as a nanostructure adsorbent for carbon monoxide: DFT calculations. <i>Molecular Physics</i> , 2016, 114, 1756-1762.	0.8	69
23	Application of pristine and Ni-decorated B <sub>12</sub> P <sub>12</sub> nano-clusters as superior media for acetylene and ethylene adsorption: DFT calculations. <i>Computational and Theoretical Chemistry</i> , 2017, 1109, 1-9.	1.1	69
24	Coordination of nickel atoms with Al <sub>12</sub> X <sub>12</sub> (X = Al, P) nanocages enhances H <sub>2</sub> adsorption: A surface study by DFT. <i>Vacuum</i> , 2016, 133, 70-80.	1.6	67
25	Adsorption of adenine on the surface of nickel-decorated graphene; A DFT study. <i>Journal of Alloys and Compounds</i> , 2016, 686, 662-668.	2.8	66
26	Sulfur mustard gas adsorption on ZnO fullerene-like nanocage: Quantum chemical calculations. <i>Superlattices and Microstructures</i> , 2017, 106, 122-128.	1.4	66
27	Study on the electronic structure of Cr- and Ni-doped fullerenes upon adsorption of adenine: A comprehensive DFT calculation. <i>Diamond and Related Materials</i> , 2017, 77, 116-121.	1.8	65
28	Interaction of SO <sub>2</sub> and SO <sub>3</sub> on terthiophene (as a model of polythiophene gas sensor): DFT calculations. <i>Chemical Physics Letters</i> , 2015, 639, 29-35.	1.2	62
29	The computational quantum mechanical study of sulfamide drug adsorption onto X <sub>12</sub> Y <sub>12</sub> fullerene-like nanocages: detailed DFT and QTAIM investigations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 5427-5437.	2.0	59
30	Synthesis and application of chitosan/tripolyphosphate/graphene oxide hydrogel as a new drug delivery system for Sumatriptan Succinate. <i>Journal of Molecular Liquids</i> , 2020, 315, 113835.	2.3	59
31	Adsorption of mercaptopyridine on the surface of Al- and B-doped graphenes: Theoretical study. <i>Journal of Alloys and Compounds</i> , 2016, 682, 345-351.	2.8	58
32	Preparation of modified magnetic nanoparticles as a sorbent for the preconcentration and determination of cadmium ions in food and environmental water samples prior to flame atomic absorption spectrometry. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 381, 138-144.	1.0	57
33	Beryllium oxide (BeO) nanotube provides excellent surface towards adenine adsorption: A dispersion-corrected DFT study in gas and water phases. <i>Current Applied Physics</i> , 2018, 18, 1059-1065.	1.1	56
34	Detailed surface study of adsorbed nickel on Al <sub>12</sub> N <sub>12</sub> nano-cage. <i>Thin Solid Films</i> , 2016, 612, 179-185.	0.8	55
35	Adsorption properties of acetylene and ethylene molecules onto pristine and nickel-decorated Al <sub>12</sub> N <sub>12</sub> nanoclusters. <i>Materials Chemistry and Physics</i> , 2017, 194, 337-344.	2.0	55
36	Is it possible to use X <sub>12</sub> Y <sub>12</sub> (X = Al, B, and Y = N, P) nanocages for drug-delivery systems? A DFT study on the adsorption property of 4-aminopyridine drug. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	54

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37	Study on the surface interaction of Furan with $X_{12}Y_{12}$ ( $X=AB$ , Al, and $Y=AN$ , P) semiconductors: DFT calculations. Heteroatom Chemistry, 2016, 27, 316-322.	0.4	51
38	Surface study of platinum decorated graphene towards adsorption of $NH_3$ and $CH_4$ . Materials Chemistry and Physics, 2016, 182, 32-38.	2.0	50
39	How can nickel decoration affect $H_2$ adsorption on $B_{12}P_{12}$ nano-heterostructures?. Journal of Molecular Liquids, 2018, 255, 168-175.	2.3	50
40	Density functional theory study of the adsorption of MeOH and EtOH on the surface of Pt-decorated graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 83, 135-140.	1.3	48
41	Surface study of gallium- and aluminum- doped graphenes upon adsorption of cytosine: DFT calculations. Applied Surface Science, 2016, 390, 444-451.	3.1	48
42	Study on the electronic structure of $Al_{12}N_{12}$ and $Al_{12}P_{12}$ fullerene-like nano-clusters upon adsorption of $CH_3F$ and $CH_3Cl$ . Molecular Physics, 2016, 114, 3143-3149.	0.8	47
43	Quantum Chemical Study on the adsorption of metformin drug on the surface of pristine, Si- and Al-doped (5, 5) SWCNTs. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 90, 204-213.	1.3	47
44	Surface interaction of $H_2O$ and $H_2S$ onto $Ca_{12}O_{12}$ nanocluster: Quantum chemical analyses. Surface and Interface Analysis, 2018, 50, 411-419.	0.8	47
45	Corrosion control of aluminum in the solutions of NaCl, HCl and NaOH using 2,6-dimethylpyridine inhibitor: Experimental and DFT insights. Materials Chemistry and Physics, 2020, 244, 122681.	2.0	46
46	Interaction of methanol with some aniline and pyrrole derivatives: DFT calculations. Synthetic Metals, 2015, 209, 502-511.	2.1	44
47	First-principles study of terpyrrole as a potential hydrogen cyanide sensor: DFT calculations. Journal of Molecular Modeling, 2015, 21, 273.	0.8	44
48	Nickel-decorated $B_{12}P_{12}$ nanoclusters as a strong adsorbent for $SO_2$ adsorption: Quantum chemical calculations. Canadian Journal of Physics, 2017, 95, 958-962.	0.4	44
49	DFT study on the adsorption of diethyl, ethyl methyl, and dimethyl ethers on the surface of gallium doped graphene. Applied Surface Science, 2017, 401, 156-161.	3.1	44
50	Synthesis of $Fe_3O_4@chitosan@ZIF-8$ towards removal of malachite green from aqueous solution: Theoretical and experimental studies. International Journal of Biological Macromolecules, 2021, 168, 428-441.	3.6	44
51	Preparation of magnetic nanocomposite based on polyaniline/ $Fe_3O_4$ towards removal of lead (II) ions from real samples. Synthetic Metals, 2018, 245, 1-9.	2.1	43
52	Impacts of zeolite nanoparticles on substrate properties of thin film nanocomposite membranes for engineered osmosis. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	42
53	Application of modified magnetic nanoparticles as a sorbent for preconcentration and determination of nickel ions in food and environmental water samples. TrAC - Trends in Analytical Chemistry, 2015, 74, 146-151.	5.8	40
54	Synthesis of Grafted Nanofibrillated Cellulose-Based Hydrogel and Study of Its Thermodynamic, Kinetic, and Electronic Properties. Journal of Agricultural and Food Chemistry, 2020, 68, 8710-8719.	2.4	39

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55	Synthesis of polyaniline/Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles for removal of reactive red 198 from textile waste water: kinetic, isotherm, and thermodynamic studies. <i>Desalination and Water Treatment</i> , 2016, 57, 22551-22563.	1.0	38
56	PVDF membrane assisted by modified hydrophobic ZnO nanoparticle for membrane distillation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2196.	0.8	38
57	X <sub>12</sub> N <sub>12</sub> (X=Al, B) clusters for protection of vitamin C; molecular modeling investigation. <i>Surfaces and Interfaces</i> , 2019, 15, 30-37.	1.5	38
58	Substitutional doping of zirconium-, molybdenum-, ruthenium-, and palladium: An effective method to improve nonlinear optical and electronic property of C <sub>20</sub> fullerene. <i>Computational and Theoretical Chemistry</i> , 2017, 1121, 68-75.	1.1	37
59	A Comparative Computational Investigation of Phosgene Adsorption on (XY) <sub>12</sub> (X=Al, B and Y=N, P) Nanoclusters: DFT Investigations. <i>Journal of Cluster Science</i> , 2019, 30, 203-218.	1.7	34
60	Theoretical investigation on the reactive and interaction properties of sorafenib – DFT, AIM, spectroscopic and Hirshfeld analysis, docking and dynamics simulation. <i>Journal of Molecular Liquids</i> , 2021, 330, 115652.	2.3	34
61	Potential of metal–fullerene hybrids as strong nanocarriers for cytosine and guanine nucleobases: A detailed DFT study. <i>Current Applied Physics</i> , 2018, 18, 133-140.	1.1	33
62	Gelatin-coated gold nanoparticles as an effective pH-sensitive methotrexate drug delivery system for breast cancer treatment. <i>Materials Today Chemistry</i> , 2021, 20, 100474.	1.7	33
63	Potential of graphene oxide as a drug delivery system for Sumatriptan: a detailed density functional theory study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 1611-1620.	2.0	30
64	Anti-bacterial assay of doped membrane by zero valent Fe nanoparticle via in-situ and ex-situ aspect. <i>Chemical Engineering Research and Design</i> , 2017, 117, 287-300.	2.7	29
65	First-principles DFT study of SO <sub>2</sub> and SO <sub>3</sub> adsorption on 2PANI: a model for polyaniline response. <i>Journal of Sulfur Chemistry</i> , 2016, 37, 622-631.	1.0	28
66	Are nickel- and titanium- doped fullerenes suitable adsorbents for dopamine in an aqueous solution? Detailed DFT and AIM studies. <i>Journal of Molecular Liquids</i> , 2021, 322, 114942.	2.3	28
67	Modified surface based on magnetic nanocomposite of dithiooxamide/Fe <sub>3</sub> O <sub>4</sub> as a sorbent for preconcentration and determination of trace amounts of copper. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 389, 130-135.	1.0	27
68	Esterification of Waste Chicken Fat: Sulfonated MWCNT Toward Biodiesel Production. <i>Waste and Biomass Valorization</i> , 2018, 9, 591-599.	1.8	27
69	Application of chromium-doped fullerene as a carrier for thymine and uracil nucleotides: Comprehensive density functional theory calculations. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4070.	1.7	27
70	Change in the electronic and nonlinear optical properties of Fullerene through its incorporation with Sc-, Fe-, Cu-, and Zn transition metals. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	26
71	Conjugation of pectin biopolymer with Au nanoparticles as a drug delivery system: Experimental and DFT studies. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5609.	1.7	26
72	Removal of Bismuth (III) ions from water solution using a cellulose-based nanocomposite: A detailed study by DFT and experimental insights. <i>Journal of Molecular Liquids</i> , 2019, 295, 111723.	2.3	25

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73	A theoretical study of two novel Schiff bases as inhibitors of carbon steel corrosion in acidic medium. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	25
74	Mathematical modeling of continuous ethanol fermentation in a membrane bioreactor by pervaporation compared to conventional system: Genetic algorithm. <i>Bioresource Technology</i> , 2016, 212, 62-71.	4.8	24
75	DFT study of boron trichloride adsorption on the surface of Al <sub>12</sub> N <sub>12</sub> nanocluster. <i>Molecular Physics</i> , 2017, 115, 879-884.	0.8	24
76	Dispersive liquid-liquid microextraction based on green type solvents "deep eutectic solvents" for highly selective separation and efficient preconcentration of nickel in water samples. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 1715-1722.	1.2	24
77	Comparison of X <sub>12</sub> Y <sub>12</sub> (X=Al, B and Y=N, P) fullerene-like nanoclusters toward adsorption of dimethyl ether. <i>Journal of Theoretical and Computational Chemistry</i> , 2018, 17, 1850013.	1.8	23
78	Gelatin-Gold Nanoparticles as an Ideal Candidate for Curcumin Drug Delivery: Experimental and DFT Studies. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 2186-2196.	1.9	23
79	Fabrication of TFC nanofiltration membranes via co-solvent assisted interfacial polymerization for lactose recovery. <i>Arabian Journal of Chemistry</i> , 2019, 12, 5325-5338.	2.3	23
80	Investigations of adsorption behavior and anti-inflammatory activity of glycine functionalized Al <sub>12</sub> N <sub>12</sub> and Al <sub>12</sub> O <sub>11</sub> fullerene-like cages. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 246, 119023.	2.0	23
81	Adsorption of acid blue on synthesized polymeric nanocomposites, PPy/MCM-41 and PANi/MCM-41: Isotherm, thermodynamic and kinetic studies. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2018, 55, 269-279.	1.2	21
82	Nonlinear optical, IR and orbital properties of Ni doped MgO nanoclusters: A DFT investigation. <i>Computational and Theoretical Chemistry</i> , 2018, 1138, 39-47.	1.1	21
83	Synthesis of cellulose nanofibers functionalized by dithiooxamide for preconcentration and determination of trace amounts of Cd(II) ions in water samples. <i>Cellulose</i> , 2020, 27, 8885-8898.	2.4	21
84	Application of polythiophene to methanol vapor detection: an ab initio study. <i>Journal of Molecular Modeling</i> , 2015, 21, 285.	0.8	20
85	The polythiophene molecular segment as a sensor model for H <sub>2</sub> O, HCN, NH <sub>3</sub> , SO <sub>3</sub> , and H <sub>2</sub> S: a density functional theory study. <i>Journal of Molecular Modeling</i> , 2016, 22, 127.	0.8	20
86	Terthiophene as a model sensor for some atmospheric gases: theoretical study. <i>Molecular Physics</i> , 2016, 114, 584-591.	0.8	19
87	Surface interaction of H <sub>2</sub> S, SO <sub>2</sub> , and SO <sub>3</sub> on fullerene-like gallium nitride (GaN) nanostructure semiconductor. <i>Solid State Communications</i> , 2017, 265, 6-11.	0.9	19
88	Preparation of SBA-15/graphene oxide nanocomposites for preconcentration and determination of trace amounts of rutoside in blood plasma and urine. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 533-541.	4.0	19
89	Application of B <sub>12</sub> N <sub>12</sub> and B <sub>12</sub> P <sub>12</sub> as two fullerene-like semiconductors for adsorption of halomethane: Density functional theory study. <i>Semiconductors</i> , 2017, 51, 134-138.	0.2	18
90	A DFT study of O <sub>2</sub> and Cl <sub>2</sub> adsorption onto Al <sub>12</sub> N <sub>12</sub> fullerene-like nanocluster. <i>Heteroatom Chemistry</i> , 2017, 28, .	0.4	18

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91	Application of SBA-15/Diphenyl Carbazon/SDS Nanocomposite as Solid-Phase Extractor for Simultaneous Determination of Cu(II) and Zn(II) Ions. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 3547-3556.	1.7	18
92	Sublayer assisted by hydrophilic and hydrophobic ZnO nanoparticles toward engineered osmosis process. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 2256-2268.	1.2	18
93	Functionalization of SBA-15 by dithioamide towards removal of Co (II) ions from real samples: Isotherm, thermodynamic and kinetic studies. <i>Advanced Powder Technology</i> , 2019, 30, 1823-1834.	2.0	18
94	Potential of Advanced Nano-Structured Membranes for Landfill Leachate Treatment: A Review. <i>ChemBioEng Reviews</i> , 2018, 5, 119-138.	2.6	17
95	Use of Modified $\gamma$ -Alumina Nanoparticles for the Extraction and Preconcentration of Trace Amounts of Cadmium Ions. <i>Australian Journal of Chemistry</i> , 2016, 69, 314.	0.5	16
96	Study of dimethyl ester interaction on the surface of Ga-doped graphene: Application of density functional theory. <i>Journal of Molecular Liquids</i> , 2017, 229, 1-5.	2.3	16
97	Calcium-doped single-wall nanotubes (Ca/SWCNTs) as a superior carrier for atropine drug delivery: a quantum-chemical study in gas and solvent phases. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 4267-4273.	2.0	16
98	Conformational analysis and quantum descriptors of two new imidazole derivatives by experimental, DFT, AIM, molecular docking studies and adsorption activity on graphene. <i>Heliyon</i> , 2020, 6, e05182.	1.4	16
99	The morphological properties and biocompatibility studies of synthesized nanocomposite foam from modified polyethersulfone/graphene oxide using supercritical CO <sub>2</sub> . <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2020, 57, 451-460.	1.2	16
100	Conformational analysis and DFT investigations of two triazole derivatives and its halogenated substitution by using spectroscopy, AIM and Molecular docking. <i>Chemical Data Collections</i> , 2021, 31, 100625.	1.1	16
101	Study of the adsorption of chloropicrin on pure and Ga and Al doped B <sub>12</sub> N <sub>12</sub> : a comprehensive DFT and QTAIM investigation. <i>Molecular Simulation</i> , 2022, 48, 776-788.	0.9	16
102	DFT study of hydrogen fluoride and sulfur trioxide interactions on the surface of Pt-decorated graphene. <i>Iranian Physical Journal</i> , 2016, 10, 307-313.	1.2	15
103	Theoretical study of chemisorption of cyanuric fluoride and S-triazine on the surface of Al-doped graphene. <i>Molecular Simulation</i> , 2016, 42, 1519-1527.	0.9	15
104	High ozone chemisorption by using metal-“cluster complexes: a DFT study on the nickel-decorated B <sub>12</sub> P <sub>12</sub> nanoclusters. <i>Canadian Journal of Chemistry</i> , 2017, 95, 845-850.	0.6	15
105	Strengthening of polysulfone membranes using hybrid mixtures of micro- and nano-scale modifiers. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 174-183.	2.3	15
106	Bovine serum albumin/gold nanoparticles as a drug delivery system for Curcumin: experimental and computational studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 4644-4654.	2.0	15
107	Comparative experimental study on fouling mechanisms in nano-porous membrane: cheese whey ultrafiltration as a case study. <i>Water Science and Technology</i> , 2016, 74, 2737-2750.	1.2	14
108	Chemisorption of BH <sub>3</sub> and BF <sub>3</sub> on aluminum nitride nanocluster: quantum-chemical investigations. <i>Journal of Nanostructure in Chemistry</i> , 2017, 7, 207-215.	5.3	13



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109	Ab-Initio Study of Physisorption of Hydrogen Cyanide on 2PAN: a Model for Polyaniline Gas Sensor. Zeitschrift Fur Physikalische Chemie, 2016, 230, 1487-1498.	1.4	12
110	Acid-treated zeolite (clinoptilolite) and its potential to zinc removal from water sample. International Journal of Environmental Science and Technology, 2016, 13, 2705-2712.	1.8	12
111	Sulfonic acid supported on magnetic nanoparticle as an eco-friendly, durable and robust catalyst for the synthesis of $\beta$ -amino carbonyl compounds through solvent free Mannich reaction. Applied Organometallic Chemistry, 2017, 31, e3865.	1.7	12
112	Preparation of Modified MWCNT with Dithiooxamide for Preconcentration and Determination of Trace Amounts of Cobalt Ions in Food and Natural Water Samples. ChemistrySelect, 2017, 2, 4439-4444.	0.7	12
113	Nickel Based Paddle-Wheel Metal-Organic Frameworks Towards Adsorption of O <sub>3</sub> and SO <sub>2</sub> Molecules: Quantum-Chemical Calculations. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 1826-1834.	1.9	12
114	Chemically uracil-functionalized carbon and silicon carbide nanotubes: Computational studies. Materials Chemistry and Physics, 2018, 205, 164-170.	2.0	12
115	Optimum Pareto design of non-linear predictive control with multi-design variables for PEM fuel cell. International Journal of Hydrogen Energy, 2012, 37, 11244-11254.	3.8	11
116	Computational investigation of the strategy of DNA/RNA stabilization through the study of the conjugation of an oligonucleotide with silver and gold nanoparticles. Applied Organometallic Chemistry, 2020, 34, e5690.	1.7	11
117	Performance and modeling of a moving bed biofilm process: nickel and chromium heavy metal removal from industrial wastewater. RSC Advances, 2016, 6, 113737-113744.	1.7	10
118	Developing PES membrane by modified Co <sub>3</sub> O <sub>4</sub> -OA nanoparticles for direct contact membrane distillation process. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 582-594.	0.8	10
119	Effects of perlite and caustic soda on microorganism activities of leachate in a sequence batch reactor. Environmental Technology (United Kingdom), 2018, 39, 2321-2334.	1.2	10
120	Self-assembly electrode based on silver nanoparticle toward electrogenerated chemiluminescence analysis of glucose. Korean Journal of Chemical Engineering, 2012, 29, 1063-1068.	1.2	9
121	A new route of bioaugmentation by allochthonous and autochthonous through biofilm bacteria for soluble chemical oxygen demand removal of old leachate. Environmental Technology (United Kingdom), 2018, 39, 2321-2334.	1.2	9
122	Dispersive liquid-liquid microextraction using the freeze floating organic drop for rapid, fast, and sensitive determination of lead. International Journal of Environmental Analytical Chemistry, 2018, 98, 247-257.	1.8	8
123	Three-component solventless Strecker synthesis of $\beta$ -aminonitriles catalysed by a renewable sulfonated nanoporous carbon catalyst (CMK-5SO <sub>3</sub> H). Applied Organometallic Chemistry, 2018, 32, e4422.	1.7	8
124	Reduced frequency of T helper 17 and T helper 1 cells and their association with critical coronavirus disease 2019. Apmis, 2021, 129, 271-279.	0.9	8
125	Selective removal of cadmium ions from water samples by using Br-PADAP functionalized SBA-15 particles. , 0, 130, 172-181.		8
126	Surface modification of mesoporous silicate by tannin for immobilization of TiO <sub>2</sub> nanoparticles: Study of photocatalytic performance. Materials Chemistry and Physics, 2017, 185, 14-23.	2.0	7



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127	Functionalization of (n, 0) CNTs (n = 3–16) by uracil: DFT studies. <i>European Physical Journal B</i> , 2018, 91, 1.	0.6	7
128	A new electrochemical biosensor for hydrogen peroxide using HRP/AgNPs/cysteamine/p-ABSA/GCE self-assembly modified electrode. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1766-1770.	1.2	6
129	Extraction of Eugenol from Carnation: A Quantitative and Qualitative Analysis by Aqueous and Ethanolic Solvents. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2016, 19, 1495-1502.	0.7	6
130	Improving the Mechanical Performance and Thermal Stability of a PVA-Clay Nanocomposite by Electron Beam Irradiation. <i>Mechanics of Composite Materials</i> , 2017, 53, 373-380.	0.9	6
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