

Ali Ahmadpour

List of Publications by Year in descending order

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112
papers

3,853
citations

172386

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133188

59
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114
all docs

114
docs citations

114
times ranked

4737
citing authors

#	ARTICLE	IF	CITATIONS
1	The preparation of active carbons from coal by chemical and physical activation. Carbon, 1996, 34, 471-479.	5.4	681
2	The preparation of activated carbon from macadamia nutshell by chemical activation. Carbon, 1997, 35, 1723-1732.	5.4	482
3	A review on catalytic applications of Au/TiO ₂ nanoparticles in the removal of water pollutant. Chemosphere, 2014, 107, 163-174.	4.2	271
4	Studies on adsorption of mercury from aqueous solution on activated carbons prepared from walnut shell. Journal of Hazardous Materials, 2010, 174, 251-256.	6.5	156
5	Removal of mercury from water by carbonaceous sorbents derived from walnut shell. Journal of Hazardous Materials, 2009, 167, 230-236.	6.5	153
6	Rapid removal of cobalt ion from aqueous solutions by almond green hull. Journal of Hazardous Materials, 2009, 166, 925-930.	6.5	147
7	Effect of adsorbents and chemical treatments on the removal of strontium from aqueous solutions. Journal of Hazardous Materials, 2010, 182, 552-556.	6.5	105
8	Single-wall carbon nanotubes synthesized using organic additives to Co-Mo catalysts supported on nanoporous MgO. Nanotechnology, 2007, 18, 315605.	1.3	80
9	Synthesis of Fe ₃ O ₄ /Bi ₂ WO ₆ nanohybrid for the photocatalytic degradation of pharmaceutical ibuprofen under solar light. Journal of Industrial and Engineering Chemistry, 2017, 51, 244-254.	2.9	58
10	Application of optimal RBF neural networks for optimization and characterization of porous materials. Computers and Chemical Engineering, 2005, 29, 2134-2143.	2.0	50
11	Facile synthesis of mesoporous carbon aerogel for the removal of ibuprofen from aqueous solution by central composite experimental design (CCD). Journal of Molecular Liquids, 2019, 281, 261-268.	2.3	50
12	Comparison of RSM and ANN for the investigation of linear alkylbenzene synthesis over H14[NaP5W30O110]/SiO ₂ catalyst. Journal of Industrial and Engineering Chemistry, 2013, 19, 1981-1989.	2.9	48
13	Photocatalytic degradation of nitrobenzene by gold nanoparticles decorated polyoxometalate immobilized TiO ₂ nanotubes. Separation and Purification Technology, 2016, 171, 62-68.	3.9	47
14	Comparison of Equilibria and Kinetics of High Surface Area Activated Carbon Produced from Different Precursors and by Different Chemical Treatments. Industrial & Engineering Chemistry Research, 1998, 37, 1329-1334.	1.8	46
15	Biodegradable starch/poly (vinyl alcohol) film reinforced with titanium dioxide nanoparticles. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 1001-1011.	2.4	45
16	CO ₂ separation using PDMS/ZSM-5 zeolite composite membrane. Separation and Purification Technology, 2011, 79, 293-302.	3.9	42
17	Biodegradable blend membranes of poly (butylene succinate)/cellulose acetate/dextran: Preparation, characterization and performance. Carbohydrate Polymers, 2017, 173, 497-507.	5.1	42
18	Comparison of models on the prediction of binary equilibrium data of activated carbons. AIChE Journal, 1998, 44, 740-752.	1.8	41

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19	Novel Au NPs/Preyssler acid/TiO ₂ nanocomposite for the photocatalytic removal of azo dye. Separation and Purification Technology, 2014, 133, 415-420.	3.9	41
20	PVP assisted synthesis of high efficient BiOI/Graphene oxide nanohybrid and its photocatalytic performance in degradation of organic dye pollutants. Solar Energy, 2018, 176, 483-495.	2.9	39
21	Alkylation of Benzene with 1-Decene Using Silica Supported Preyssler Heteropoly Acid: Statistical Design with Response Surface Methodology. Chinese Journal of Catalysis, 2012, 33, 494-501.	6.9	37
22	What is the effect of carbon nanotube shape on desalination process? A simulation approach. Desalination, 2017, 407, 103-115.	4.0	36
23	Deep oxidative desulfurization of dibenzothiophene with {Mo ₁₃₂ } nanoballs supported on activated carbon as an efficient catalyst at room temperature. New Journal of Chemistry, 2018, 42, 12188-12197.	1.4	36
24	Separation of polyvinylchloride (PVC), polystyrene (PS) and polyethylene terephthalate (PET) granules using various chemical agents by flotation technique. Separation and Purification Technology, 2018, 194, 368-376.	3.9	36
25	Enhancing the photocatalytic activity of TiO ₂ nanocrystalline thin film by doping with SiO ₂ . Chemical Engineering Journal, 2011, 174, 709-713.	6.6	35
26	A polyoxometalate-assisted approach for synthesis of Pd nanoparticles on graphene nanosheets: synergistic behaviour for enhanced electrocatalytic activity. RSC Advances, 2015, 5, 24319-24326.	1.7	35
27	Performance of MWCNTs and a low-cost adsorbent for Chromium(VI) ion removal. Journal of Nanostructure in Chemistry, 2014, 4, 171-178.	5.3	34
28	Low-cost preparation of silica aerogel for optimized adsorptive removal of naphthalene from aqueous solution with central composite design (CCD). Journal of Non-Crystalline Solids, 2016, 447, 307-314.	1.5	32
29	Synthesis and characterization of Cu doped cobalt oxide nanocrystals as methane gas sensors. Physica Scripta, 2011, 84, 015801.	1.2	31
30	Recent Advances in Application of Polyoxometalates for the Synthesis of Nanoparticles. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 209-230.	0.6	31
31	Rate redox-controlled green photosynthesis of gold nanoparticles using H ₃ PMo ₁₂ V ₄ O ₄₀ . Gold Bulletin, 2012, 45, 145-151.	1.1	29
32	Characterization of modified activated carbons: Equilibria and dynamics studies. Carbon, 1995, 33, 1393-1398.	5.4	28
33	Hybrid molecular simulation of methane storage inside pillared graphene. Journal of Chemical Physics, 2015, 142, 234704.	1.2	28
34	Preparation of magnetic photocatalyst nanohybrid decorated by polyoxometalate for the degradation of a pharmaceutical pollutant under solar light. Environmental Science and Pollution Research, 2016, 23, 8849-8860.	2.7	26
35	A comparative theoretical study of methane adsorption on the nitrogen, boron and lithium doped graphene sheets including density functional dispersion correction. Computational and Theoretical Chemistry, 2016, 1084, 43-50.	1.1	25
36	Does electric or magnetic field affect reverse osmosis desalination?. Desalination, 2018, 432, 55-63.	4.0	25

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37	Photocatalytic Synthesis of Gold Nanoparticles Using Preyssler Acid and Their Photocatalytic Activity. Chinese Journal of Catalysis, 2011, 32, 978-982.	6.9	23
38	Synthesis and characterization of modified UZM-5 as adsorbent for nitrate removal from aqueous solution. Separation and Purification Technology, 2013, 113, 24-32.	3.9	23
39	Facile Synthesis of BiOI Nanoparticles at Room Temperature and Evaluation of their Photoactivity Under Sunlight Irradiation. Photochemistry and Photobiology, 2018, 94, 4-16.	1.3	23
40	Atomistic simulation of proton transfer ability of Isopoly acid (IPA)/Heteropoly acid (HPA) doped Nafion® 117 for high-temperature fuel cell applications. Composites Part B: Engineering, 2019, 161, 402-410.	5.9	23
41	Improving methane storage on wet activated carbons at various amounts of water. Journal of Fuel Chemistry and Technology, 2012, 40, 385-389.	0.9	22
42	Solar energy harvesting by magnetic-semiconductor nanoheterostructure in water treatment technology. Environmental Science and Pollution Research, 2018, 25, 8268-8285.	2.7	22
43	Highly efficient and green catalyst of {Mo132} nanoballs supported on ionic liquid-functionalized magnetic silica nanoparticles for oxidative desulfurization of dibenzothiophene. Separation and Purification Technology, 2021, 258, 117960.	3.9	21
44	Novel ZnTi LDH/h-BN nanocomposites for removal of two different organic contaminants: Simultaneous visible light photodegradation of Amaranth and Diazepam. Journal of Water Process Engineering, 2022, 47, 102581.	2.6	21
45	Pore size distribution analysis of activated carbons prepared from coconut shell using methane adsorption data. Journal of Physics and Chemistry of Solids, 2013, 74, 886-891.	1.9	19
46	Effect of stirring on behaviour of double oxide film defects in A356 aluminium melt. International Journal of Cast Metals Research, 2014, 27, 221-229.	0.5	19
47	Mechanistic insights into the activation process in electrocatalytic ethanol oxidation by phosphomolybdic acid-stabilised palladium(0) nanoparticles (PdNPs@PMo ₁₂). RSC Advances, 2016, 6, 5359-5366.	1.7	19
48	Experimental and simulation study of the effect of surface functional groups decoration on CH ₄ and H ₂ storage capacity of microporous carbons. Applied Surface Science, 2020, 533, 147487.	3.1	18
49	Effects of Gasifying Agents on the Characterization of Nut Shell-derived Activated Carbon. Adsorption Science and Technology, 1995, 12, 247-258.	1.5	17
50	CO ₂ gas adsorption into graphene oxide framework: Effect of electric and magnetic field. Applied Surface Science, 2018, 456, 318-327.	3.1	16
51	Superior performance of modified pitch-based adsorbents for cyclic methane storage. Journal of Energy Storage, 2020, 28, 101251.	3.9	16
52	The novel, one step and facile synthesis of ZnO nanoparticles using heteropolyoxometalates and their photoluminescence behavior. Advanced Powder Technology, 2013, 24, 549-553.	2.0	15
53	Controllable one-step synthesis of ZnO nanostructures using molybdophosphoric acid. Chemical Papers, 2014, 68, .	1.0	15
54	Preparation and characterization of anion exchange resin decorated with magnetite nanoparticles for removal of p-toluic acid from aqueous solution. Journal of Magnetism and Magnetic Materials, 2015, 375, 177-183.	1.0	14

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55	Catalytic Performance of Nano-SiO ₂ -Supported Preyssler Heteropolyacid in Esterification of Salicylic Acid with Aliphatic and Benzylic Alcohols. Chinese Journal of Catalysis, 2011, 32, 782-788.	6.9	13
56	The Study on Titanium Dioxide-Silica Binary Mixture Coated SrAl ₂ O ₄ : Eu ²⁺ , Dy ³⁺ Phosphor as a Photoluminescence Pigment in a Waterborne Paint. Journal of Fluorescence, 2019, 29, 461-471.	1.3	13
57	The effect of the surface coating of a strontium mono-aluminate europium dysprosium-based (SrAl ₂ O ₄ :Eu ²⁺ ,Dy ³⁺) phosphor by polyethylene (PE), polystyrene (PS) and their dual system on the photoluminescence properties of the pigment. RSC Advances, 2019, 9, 38703-38712.	1.7	12
58	Pore Size Distribution Analysis of Coal-Based Activated Carbons: Investigating the Effects of Activating Agent and Chemical Ratio. ISRN Chemical Engineering, 2012, 2012, 1-10.	1.2	12
59	A Green and Simple Route for the Controlled-Size Synthesis of Gold Nanoparticles Using Preyssler Heteropolyacid. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 1309-1314.	0.6	11
60	The Application of Silica-Supported Preyssler HPA as a Heterogeneous and Green Catalyst for the Alkylation of Benzene. Petroleum Science and Technology, 2014, 32, 1022-1027.	0.7	11
61	Preparation of acrylonitrile-butadiene-styrene membrane: Investigation of solvent/nonsolvent type and additive concentration. Korean Journal of Chemical Engineering, 2014, 31, 1399-1404.	1.2	11
62	Synthesis and application of diethanolamine-functionalized polystyrene as a new sorbent for the removal of p-toluenesulfonic acid from aqueous solution. Journal of Industrial and Engineering Chemistry, 2015, 30, 281-288.	2.9	11
63	Al ₂ O ₃ and TiO ₂ entrapped ABS membranes: Preparation, characterization and study of irradiation effect. Applied Surface Science, 2015, 357, 1481-1489.	3.1	11
64	Preyssler Heteropolyacid Supported on Nano-SiO ₂ : A Green and Reusable Catalyst in Selective Oxidation of Benzyl Alcohols to Benzaldehydes. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2011, 41, 1221-1228.	0.6	10
65	OPTIMIZATION OF THE EXPERIMENTAL CONDITIONS IN SYNTHESIS OF Au NPs USING PREYSSLER HETEROPOLYACID BASED ON THE TAGUCHI ROBUST DESIGN. Nano, 2012, 07, 1250002.	0.5	10
66	Comparing the Performance of KOH with NaOH-Activated Anthracites in Terms of Methane Storage. Adsorption Science and Technology, 2013, 31, 729-745.	1.5	10
67	Improvement of methane storage in nitrogen, boron and lithium doped pillared graphene: A hybrid molecular simulation. Journal of Natural Gas Science and Engineering, 2017, 46, 265-274.	2.1	10
68	Molecular dynamics simulation of Keggin HPA doped Nafion® 117 as a polymer electrolyte membrane. RSC Advances, 2017, 7, 44537-44546.	1.7	10
69	Tunable gas adsorption in graphene oxide framework. Applied Surface Science, 2018, 443, 198-208.	3.1	10
70	SYNTHESIS OF CARBON NANOTUBES VIA CATALYTIC CHEMICAL VAPOR DEPOSITION METHOD AND THEIR MODIFICATION WITH PREYSSLER ANION, [NaP ₅ W ₃₀ O ₁₁₀] ¹⁴⁻ . Nano, 2011, 06, 349-355.	0.5	9
71	A Comparative Study of the Effects of Different Chemical Agents on the Pore-Size Distributions of Macadamia Nutshell-Based Activated Carbons Using Different Models. Adsorption Science and Technology, 2012, 30, 159-169.	1.5	9
72	Investigating parameters on the preparation of mesoporous activated carbons by the combination of chemical and physical activations using the Taguchi method. Adsorption, 2012, 18, 297-305.	1.4	9

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73	Application of Artificial Neural Networks and Adaptive Neuro-Fuzzy Inference Systems to Predict Activated Carbon Properties for Methane Storage. <i>Adsorption Science and Technology</i> , 2014, 32, 275-290.	1.5	9
74	Effect of Magnetized Ethanol on the Shape Evolution of Zinc Oxide from Nanoparticles to Microrods: Experimental and Molecular Dynamic Simulation Study. <i>Advanced Powder Technology</i> , 2018, 29, 349-358.	2.0	9
75	Oxidative desulfurization of dibenzothiophene by magnetically recoverable polyoxometalate-based nanocatalyst: Optimization by response surface methodology. <i>Molecular Catalysis</i> , 2021, 509, 111611.	1.0	9
76	Improvement of methane uptake inside graphene sheets using nitrogen, boron and lithium-doped structures: A hybrid molecular simulation. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 876-884.	1.2	8
77	Water Dynamics and Proton Transport Mechanisms of Nafion 117/Phosphotungstic Acid Composite Membrane: A Molecular Dynamics Study. <i>ChemPhysChem</i> , 2017, 18, 3485-3497.	1.0	8
78	Elucidating the morphological aspects and proton dynamics in a hybrid perfluorosulfonic acid membrane for medium-temperature fuel cell applications. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29778-29789.	1.3	8
79	Does the addition of a heteropoly acid change the water percolation threshold of PFSA membranes?. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25080-25089.	1.3	8
80	A new simple protocol for the synthesis of nanohybrid catalyst for oxidative desulfurization of dibenzothiophene. <i>Environmental Science and Pollution Research</i> , 2020, 27, 4104-4114.	2.7	8
81	Comparative Study between Regression and Soft Computing Models to Maximize the Methane Storage Capacity of Anthracite-Based Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1875-1887.	1.8	8
82	Equilibria and kinetics characterisation of two different structured nutshell-derived activated carbons. <i>Adsorption</i> , 1997, 3, 267-275.	1.4	7
83	Application of Artificial Intelligent Modeling for Predicting Activated Carbons Properties Used for Methane Storage. <i>Separation Science and Technology</i> , 2015, 50, 110-120.	1.3	7
84	Investigation of linear alkylbenzene synthesis using nanotitania-supported Dawson heteropolyacid as catalyst by statistical design approaches. <i>Research on Chemical Intermediates</i> , 2016, 42, 3283-3301.	1.3	7
85	Effect of pretreatment process on the characteristics of activated carbons produced from chemical activation of scrap tire. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 796-801.	1.3	7
86	A one-pot route for the synthesis of Au@Pd/PMo ₁₂ /rGO as a dual functional electrocatalyst for ethanol electro-oxidation and hydrogen evolution reaction. <i>RSC Advances</i> , 2019, 9, 37537-37545.	1.7	7
87	Green, Rapid and Facile HPMo-Assisted Synthesis of Silver Nanoparticles. <i>Current Nanoscience</i> , 2012, 8, 880-884.	0.7	6
88	Tribological properties of multilayer nanostructure TiO ₂ thin film doped by SiO ₂ . <i>Journal of Sol-Gel Science and Technology</i> , 2012, 63, 65-71.	1.1	6
89	Adsorptive desulfurization of model gasoline by using modified bentonite. <i>Journal of Sulfur Chemistry</i> , 2019, 40, 149-165.	1.0	6
90	Molecular dynamics simulation of carbon molecular sieve preparation for air separation. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 494-500.	1.2	5

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91	Enhancement of methane storage on activated carbons in the presence of water. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 75-81.	1.2	5
92	Synthesis of strong silica aerogel by PEDS at ambient conditions for adsorptive removal of para-dichlorobenzene from water. Journal of Sol-Gel Science and Technology, 2017, 84, 246-257.	1.1	5
93	Effects of peroxide and phenolic cure systems on characteristics of the filled ethylene- α -propylene- α -diene monomer rubber (EPDM). Journal of Applied Polymer Science, 2018, 135, 46213.	1.3	5
94	Bulk and Activated Carbon-Supported Tungstophosphoric Acid as Recyclable and Green Catalyst for One-Pot Synthesis of α -Acetamido Ketones and Esters. E-Journal of Chemistry, 2011, 8, 689-696.	0.4	4
95	An Investigation of Artificial Intelligence-Methodologies in the Prediction of the Dirty Amine Flow Rate of a Gas-Sweetening Absorption Column. Petroleum Science and Technology, 2014, 32, 527-534.	0.7	4
96	Effects of different operating parameters on the particle size of silver chloride nanoparticles prepared in a spinning disk reactor. Applied Physics A: Materials Science and Processing, 2015, 120, 105-113.	1.1	4
97	Dynamic simulation and experimental performance of an adsorbed natural gas system under variable charging conditions. Applied Thermal Engineering, 2022, 206, 118067.	3.0	4
98	Rapid removal of heavy metal ions from aqueous solutions by low cost adsorbents. International Journal of Global Environmental Issues, 2012, 12, 318.	0.1	3
99	Mathematical modeling of catalytic behavior of catalyst pellets in crude oils after blocking by liquid sulfur. Petroleum Science and Technology, 2017, 35, 426-435.	0.7	3
100	Functionalized magnetite / silica nanocomposite for oily wastewater treatment. Advances in Environmental Research, 2015, 4, 69-81.	0.3	3
101	ISOSTERIC HEAT: A CRITERION FOR EQUILIBRIUM MODEL SELECTION. , 2000, , .		2
102	Investigation of Silica-Supported Preyssler Nanoparticles as Nanocatalysts in Alkylation of Benzene With 1-Decene Using Artificial Intelligence Approach. Journal of Nanotechnology in Engineering and Medicine, 2011, 2, .	0.8	2
103	Synthesis and characterisation of modified carbon nanotubes with potassium salts of the monosubstituted Keggin polyoxometalates. Micro and Nano Letters, 2014, 9, 482-485.	0.6	2
104	ZnO-Nanorods as an Efficient Heterogeneous Catalyst for the Synthesis of Thiazole Derivatives in Water. Combinatorial Chemistry and High Throughput Screening, 2017, 20, 304-309.	0.6	2
105	Comparison of Catalysts Preyssler and Silica-Supported Nano Preyssler in the Synthesis of Acetyl Salicylic Acid. E-Journal of Chemistry, 2012, 9, 272-276.	0.4	1
106	Endohedral functionalisation of multi-wall carbon nanotubes by acidic cesium salt of Preyssler in nanosize. Micro and Nano Letters, 2014, 9, 198-201.	0.6	1
107	Chemical preparation of beta calcium sulfate hemihydrate granules with a special particle size as bone graft material. Clinical Biochemistry, 2011, 44, S173.	0.8	0
108	Experimental Investigation on the Removal of p-Toluic Acid from Aqueous Solution using Functionalized Polymeric Sorbent. Chemical Engineering Communications, 2016, 203, 1179-1188.	1.5	0

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109	Synthesis and Characterization of Au NPs/Molybdophosphoric Acid/CNT Tricomponent Nanohybrid. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2016, 46, 596-601.	0.6	0
110	A New Formulation for Polymeric Separator Gels for Potential use in Blood Serum Separator Tubes. Progress in Rubber, Plastics and Recycling Technology, 2018, 34, 35-53.	0.8	0
111	Prediction of Energy and Pore Size Distributions Via Linear Regularization Theory. , 2019, , 486-490.		0
112	Carboxymethyl- β -cyclodextrin as a good modifier agent for oxidation of dibenzothiophene. Surfaces and Interfaces, 2022, 28, 101612.	1.5	0