Mohammad Nahid Siddiqui

List of Publications by Year
in descending order

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Version: 2024-02-01

85 papers	3,140 citations	218677 26 h-index	161849 54 g-index
86 all docs	86 docs citations	86 times ranked	3697 citing authors

#	Article	IF	Citations
1	Using functionalized asphaltenes as effective adsorbents for the removal of chromium and lead metal ions from aqueous solution. Environmental Research, 2022, 204, 112361.	7.5	8
2	Biosynthesized Silver Nanoparticles Decorated Electro-Membrane Flow Reactor an Effective Tool for the Desulfurization of Fuels. Arabian Journal for Science and Engineering, 2022, 47, 543-550.	3.0	5
3	Durability study of asphaltene-reinforced HDPE and LDPE composites under UV irradiation and local weathering exposure. Polymer Bulletin, 2021, 78, 4487-4503.	3.3	2
4	Efficient Co-MoS2 electrocatalyst for cathodic degradation of halogenated disinfection by-products in water sample. Separation and Purification Technology, 2021, 259, 118085.	7.9	8
5	Super-fast removal of cobalt metal ions in water using inexpensive mesoporous carbon obtained from industrial waste material. Environmental Technology and Innovation, 2021, 21, 101257.	6.1	19
6	Degradation Kinetics and Mechanism of Polychloromethanes Reduction at Co-MoS2/Graphite Felt Electrode. Catalysts, 2021, 11, 929.	3.5	0
7	Recent progress in green and biopolymer based photocatalysts for the abatement of aquatic pollutants. Environmental Research, 2021, 199, 111324.	7.5	24
8	Adsorption of industrial dyes on functionalized and nonfunctionalized asphaltene: A combined molecular dynamics and quantum mechanics study. Journal of Molecular Liquids, 2021, 337, 116433.	4.9	20
9	Chemical Recycling of PET in the Presence of the Bio-Based Polymers, PLA, PHB and PEF: A Review. Sustainability, 2021, 13, 10528.	3.2	37
10	Development of Bio-Composites with Enhanced Antioxidant Activity Based on Poly(lactic acid) with Thymol, Carvacrol, Limonene, or Cinnamaldehyde for Active Food Packaging. Polymers, 2021, 13, 3652.	4.5	14
11	Highly efficient porous sorbent derived from asphalt for the solid-phase extraction of polycyclic aromatic hydrocarbons. Journal of Chromatography A, 2020, 1631, 461559.	3.7	8
12	Surface Functionalization of Mesoporous Carbon for the Enhanced Removal of Strontium and Cesium Radionuclides. Coatings, 2020, 10, 923.	2.6	6
13	Effect of the side ethylene glycol and hydroxyl groups on the polymerization kinetics of oligo(ethylene glycol methacrylates). An experimental and modeling investigation. Polymer Chemistry, 2020, 11, 3732-3746.	3.9	9
14	Synthesis of highly efficient asphalt-based carbon for adsorption of polycyclic aromatic hydrocarbons and diesel from emulsified aqueous phase. Carbon Letters, 2020, 30, 555-567.	5.9	5
15	Depolymerization of PLA by Phase Transfer Catalysed Alkaline Hydrolysis in a Microwave Reactor. Journal of Polymers and the Environment, 2020, 28, 1664-1672.	5.0	20
16	Quick removal of nickel metal ions in water using asphalt-based porous carbon. Journal of Molecular Liquids, 2020, 308, 113078.	4.9	24
17	Kinetic analysis of thermal and catalytic degradation of polymers found in waste electric and electronic equipment. Thermochimica Acta, 2019, 675, 69-76.	2.7	21
18	The impact of microstructural features of carbon supports on the electrocatalytic hydrogen evolution reaction. Catalysis Science and Technology, 2019, 9, 1497-1503.	4.1	20

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19	Facile synthesis of ultrathin interconnected carbon nanosheets as a robust support for small and uniformly-dispersed iron phosphide for the hydrogen evolution reaction. Carbon, 2019, 144, 764-771.	10.3	53
20	Household solid fuel burning emission characterization and activity levels in India. Science of the Total Environment, 2019, 654, 493-504.	8.0	17
21	Pyrolysis mechanism and thermal degradation kinetics of poly(bisphenol A carbonate)-based polymers originating in waste electric and electronic equipment. Journal of Analytical and Applied Pyrolysis, 2018, 132, 123-133.	5.5	47
22	Use of asphaltene filler to improve low-density polyethylene properties. Petroleum Science and Technology, 2018, 36, 756-764.	1.5	19
23	Weatherability of conventional composites and nanocomposites of <scp>PVC</scp> and rutile titanium dioxide. Polymer Composites, 2018, 39, 2135-2141.	4.6	5
24	Green Synthesis of Silver Nanoparticles and Study of Their Antimicrobial Properties. Journal of Polymers and the Environment, 2018, 26, 423-433.	5.0	52
25	Effect of Natural Macromolecule Filler on the Properties of Highâ€Density Polyethylene (HDPE). Macromolecular Symposia, 2018, 380, 1800072.	0.7	11
26	Interconnected Hollow Cobalt Phosphide Grown on Carbon Nanotubes for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2018, 10, 29407-29416.	8.0	73
27	Preparation and properties of polypropylene-asphaltene composites. Polymer Composites, 2017, 38, 1957-1963.	4.6	28
28	Weatherability of conventional and nanocomposites of LDPE and Zinc Oxide. Polymer Composites, 2017, 38, 341-348.	4.6	4
29	Synthesis and characterization of functionalized polythiophene for polymer-sensitized solar cell. Dyes and Pigments, 2017, 141, 406-412.	3.7	17
30	Kinetic and intraparticle diffusion studies of carbon nanotubes-titania for desulfurization of fuels. Petroleum Science and Technology, 2016, 34, 1468-1474.	1.5	37
31	Synthesis and characterization of poly(2-hydroxyethyl methacrylate)/silver hydrogel nanocomposites prepared via in situ radical polymerization. Thermochimica Acta, 2016, 643, 53-64.	2.7	25
32	Using asphaltenes as filler in methyl methacrylate polymer composites. Petroleum Science and Technology, 2016, 34, 253-259.	1.5	15
33	Desulfurization of Model Fuels with Carbon Nanotube/TiO2 Nanomaterial Adsorbents: Comparison of Batch and Film-Shear Reactor Processes. Journal of Inorganic and Organometallic Polymers and Materials, 2016, 26, 572-578.	3.7	2
34	Kinetic and computational evaluation of activated carbon produced from rubber tires toward the adsorption of nickel in aqueous solutions. Desalination and Water Treatment, 2016, 57, 17570-17578.	1.0	11
35	Studies of Different Properties of Polystyreneâ€Asphaltene Composites. Macromolecular Symposia, 2015, 354, 184-190.	0.7	22
36	Synthesis, characterization and reaction kinetics of PMMA/silver nanocomposites prepared via in situ radical polymerization. European Polymer Journal, 2015, 72, 256-269.	5.4	38

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37	Synthesis of Multiwalled Carbon Nanotubes-Titania Nanomaterial for Desulfurization of Model Fuel. Journal of Nanomaterials, 2014, 2014, 1-6.	2.7	25
38	Accelerated Weatherability of the Low-Density Polyethylene Nanocomposites with Silica, Clay, and Zinc Oxide. Journal of Nanomaterials, 2014, 2014, 1-5.	2.7	3
39	Chlorination, Nitration, and Amination Reactions of Asphaltene. Petroleum Science and Technology, 2014, 32, 2987-2994.	1.5	12
40	Effect of organomodified clay on the reaction kinetics, properties and thermal degradation of nanocomposites based on poly(styrene-co -ethyl methacrylate). Polymer International, 2014, 63, 766-777.	3.1	12
41	Evaluating the Role of Nanomontmorillonite in Bulk in Situ Radical Polymerization Kinetics of Butyl Methacrylate through a Simulation Model. Industrial & Engineering Chemistry Research, 2014, 53, 11303-11311.	3.7	14
42	Nanocatalyst support of laser-induced photocatalytic degradation of MTBE. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 52-58.	1.7	8
43	Synthesis and characterization of novel nanocomposite materials based on poly(styrene-co-butyl) Tj ETQq1 1 0.784314 rgBT /Overloc	5.4	22
44	Chromium removal from water by activated carbon developed from waste rubber tires. Environmental Science and Pollution Research, 2013, 20, 1261-1268.	5.3	370
45	Durability of LDPE Nanocomposites with Clay, Silica, and Zinc Oxideâ€"Part I: Mechanical Properties of the Nanocomposite Materials. Journal of Nanomaterials, 2013, 2013, 1-6.	2.7	16
46	Durability of LDPE nanocomposites with clay, silica, and zinc oxide II. weatherability of the nanocomposites. Polymer Composites, 2013, 34, 1878-1883.	4.6	12
47	Laser photochemical deposition of magnetite nanograins in a-Fe/C/O composite: High-pressure metal oxide polymorph surviving ambient conditions. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 243, 33-40.	3.9	2
48	Recycling of poly(ethylene terephthalate) waste through methanolic pyrolysis in a microwave reactor. Journal of Analytical and Applied Pyrolysis, 2012, 98, 214-220.	5.5	61
49	Morphology and antifungal effect of nano-ZnO and nano-Pd-doped nano-ZnO against Aspergillus and Candida. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 1413-1418.	1.7	39
50	Compositional dependence of DC electrical conductivity of SrO-vanadate glasses. Solid State Ionics, 2012, 211, 5-11.	2.7	16
51	Synthesis and Crystal Structure of (Z)-Ethyl 5-(phenylamino)-3-(phenylimino)-3H-1,2-dithiole-4-carboxylate. Synthetic Communications, 2011, 41, 3469-3476.	2.1	0
52	Laser-based photo-oxidative degradation of methyltertiary-butyl ether (MTBE) using zinc oxide (ZnO) catalyst. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1154-1159.	1.7	4
53	Catalytic pyrolysis of Arab Heavy residue and effects on the chemistry of asphaltene. Journal of Analytical and Applied Pyrolysis, 2010, 89, 278-285.	5.5	33
54	Glycolytic depolymerization of PET waste in a microwave reactor. Journal of Applied Polymer Science, 2010, 118, 3066-3073.	2.6	85

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55	Hydrolytic Depolymerization of PET in a Microwave Reactor. Macromolecular Materials and Engineering, 2010, 295, 575-584.	3.6	74
56	NMR Fingerprinting of Chemical Changes in Asphalt Fractions on Oxidation. Petroleum Science and Technology, 2010, 28, 401-411.	1.5	15
57	STRUCTURE AND ELECTRICAL PROPERTIES OF SrO-BOROVANADATE (V2O5)z(SrO)0.2(B2O3)0.8-z GLASSES. International Journal of Modern Physics B, 2010, 24, 1471-1488.	2.0	1
58	Detection of Trace Metals in Asphaltenes Using an Advanced Laser-Induced Breakdown Spectroscopy (LIBS) Technique. Energy & Fuels, 2010, 24, 1099-1105.	5.1	38
59	Equilibrium and Thermodynamic Studies on the Adsorption of the Dye Rhodamine-B onto Mustard Cake and Activated Carbon. Journal of Chemical & Engineering Data, 2010, 55, 5225-5229.	1.9	96
60	Catalytic coprocessing of waste plastics and petroleum residue into liquid fuel oils. Journal of Analytical and Applied Pyrolysis, 2009, 86, 141-147.	5.5	60
61	Determination of Trace Metals Using Laser Induced Breakdown Spectroscopy in Insoluble Organic Materials Obtained from Pyrolysis of Plastics Waste. Bulletin of Environmental Contamination and Toxicology, 2009, 83, 141-145.	2.7	17
62	Pyrolysis of mixed plastics for the recovery of useful products. Fuel Processing Technology, 2009, 90, 545-552.	7.2	149
63	Conversion of hazardous plastic wastes into useful chemical products. Journal of Hazardous Materials, 2009, 167, 728-735.	12.4	54
64	Effect of Chemical Additives on the Binding Strength of Arabian Asphalts. Petroleum Science and Technology, 2009, 27, 575-587.	1.5	3
65	NMR Finger Printing of Chemical Changes in Asphalt Fractions on Oxidation. Petroleum Science and Technology, 2009, 27, 2033-2045.	1.5	14
66	Identification of different type of polymers in plastics waste. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2008, 43, 1303-1310.	1.7	34
67	Estimating Methyl/Methylene Groups in Asphaltene and Other Fractions of Asphalt. Petroleum Science and Technology, 2008, 26, 2048-2057.	1.5	4
68	Identification of different kinds of plastics using laser-induced breakdown spectroscopy for waste management. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 1989-1997.	1.7	89
69	Deep desulphurization of gasoline and diesel fuels using non-hydrogen consuming techniques. Fuel, 2006, 85, 1354-1363.	6.4	207
70	The Conversion of Waste Plastics/Petroleum Residue Mixtures to Transportation Fuels. , 2006, , 363-380.		3
71	Catalytic Processing of Waste Plastics With/Without Petroleum Residâ€"An Economic Evaluation. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2006, 28, 1353-1363.	2.3	6
72	Thermal and catalytic decomposition behavior of PVC mixed plastic waste with petroleum residue. Journal of Analytical and Applied Pyrolysis, 2005, 74, 282-289.	5.5	103

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73	Structural Studies on Residual Fuel Oil Asphaltenes by RICO Method. Petroleum Science and Technology, 2004, 22, 631-645.	1.5	14
74	Alkylation and oxidation reactions of Arabian asphaltenesâ‹†. Fuel, 2003, 82, 1323-1329.	6.4	23
75	Infrared Study of Hydrogen Bond Types in Asphaltenes. Petroleum Science and Technology, 2003, 21, 1601-1615.	1.5	23
76	Use of X-ray diffraction in assessing the aging pattern of asphalt fractions. Fuel, 2002, 81, 51-58.	6.4	169
77	CHANGES IN ASPHALT CHEMISTRY AND DURABILITY DURING OXIDATION AND POLYMER MODIFICATION. Petroleum Science and Technology, 2001, 19, 1229-1249.	1.5	23
78	Regiochemistry and mechanism of oxidation ofN-benzyl-N-alkylhydroxylamines to nitrones. Journal of Physical Organic Chemistry, 2000, 13, 443-451.	1.9	14
79	Studies on the aging behavior of the Arabian asphalts. Fuel, 1999, 78, 1005-1015.	6.4	191
80	Investigation of chemical transformations by NMR and GPC during the laboratory aging of Arabian asphalt. Fuel, 1999, 78, 1407-1416.	6.4	113
81	Characterization of the Structure of Saudi Crude Asphaltenes by X-ray Diffraction. Energy & Fuels, 1997, 11, 561-565.	5.1	108
82	Regiochemistry of mercury(II) oxide oxidation of unsymmetrical N,N-disubstituted hydroxylamines. Tetrahedron, 1996, 52, 14917-14928.	1.9	28
83	Thermolysis of 7-isopropylidene-2,3-diazabicyclo [2.2.1] hept-2-ene in the presence of spin trap. Tetrahedron Letters, 1991, 32, 3711-3714.	1.4	1
84	Developing an effective adsorbent from asphaltene for the efficient removal of dyes in aqueous solution. , 0, 67, 371-380.		6
85	Membrane-Assisted Flow Reactor for the Extraction of Sulfur Compounds in Petroleum Crude and its Fractions. Arabian Journal for Science and Engineering, 0, , 1.	3.0	0