

Noureddine Barka

List of Publications by Year in descending order

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104
papers

4,205
citations

109264

35
h-index

123376

61
g-index

107
all docs

107
docs citations

107
times ranked

4381
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of textile dyes on raw and decanted Moroccan clays: Kinetics, equilibrium and thermodynamics. <i>Water Resources and Industry</i> , 2015, 9, 16-29.	1.9	236
2	Removal of Methylene Blue and Eriochrome Black T from aqueous solutions by biosorption on <i>Scolymus hispanicus</i> L.: Kinetics, equilibrium and thermodynamics. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2011, 42, 320-326.	2.7	185
3	Methomyl degradation in aqueous solutions by Fenton's reagent and the photo-Fenton system. <i>Separation and Purification Technology</i> , 2008, 61, 103-108.	3.9	184
4	Zn-Al layered double hydroxides intercalated with carbonate, nitrate, chloride and sulphate ions: Synthesis, characterisation and dye removal properties. <i>Journal of Taibah University for Science</i> , 2017, 11, 90-100.	1.1	174
5	Biosorption characteristics of cadmium and lead onto eco-friendly dried cactus (<i>Opuntia ficus indica</i>) cladodes. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 144-149.	3.3	173
6	Factors influencing the photocatalytic degradation of Rhodamine B by TiO ₂ -coated non-woven paper. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 195, 346-351.	2.0	164
7	Photocatalytic degradation of indigo carmine in aqueous solution by TiO ₂ -coated non-woven fibres. <i>Journal of Hazardous Materials</i> , 2008, 152, 1054-1059.	6.5	153
8	Dried prickly pear cactus (<i>Opuntia ficus indica</i>) cladodes as a low-cost and eco-friendly biosorbent for dyes removal from aqueous solutions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 52-60.	2.7	126
9	Removal of textile dyes from aqueous solutions by natural phosphate as a new adsorbent. <i>Desalination</i> , 2009, 235, 264-275.	4.0	121
10	Ni/Fe and Mg/Fe layered double hydroxides and their calcined derivatives: preparation, characterization and application on textile dyes removal. <i>Journal of Materials Research and Technology</i> , 2017, 6, 271-283.	2.6	115
11	Removal of Reactive Yellow 84 from aqueous solutions by adsorption onto hydroxyapatite. <i>Journal of Saudi Chemical Society</i> , 2011, 15, 263-267.	2.4	111
12	Comparative overview of advanced oxidation processes and biological approaches for the removal pharmaceuticals. <i>Journal of Environmental Management</i> , 2021, 288, 112404.	3.8	109
13	Photocatalytic degradation of an azo reactive dye, Reactive Yellow 84, in water using an industrial titanium dioxide coated media. <i>Arabian Journal of Chemistry</i> , 2010, 3, 279-283.	2.3	104
14	Spinel ferrites nanoparticles: Synthesis methods and application in heterogeneous Fenton oxidation of organic pollutants – A review. <i>Applied Surface Science Advances</i> , 2021, 6, 100145.	2.9	101
15	Photodegradation of 2-naphthol in water by artificial light illumination using TiO ₂ photocatalyst: Identification of intermediates and the reaction pathway. <i>Applied Catalysis A: General</i> , 2008, 334, 386-393.	2.2	85
16	Factorial experimental design for the optimization of catalytic degradation of malachite green dye in aqueous solution by Fenton process. <i>Water Resources and Industry</i> , 2016, 15, 41-48.	1.9	82
17	Photocatalytic degradation of pesticides by titanium dioxide and titanium pillared purified clays. <i>Arabian Journal of Chemistry</i> , 2016, 9, S313-S318.	2.3	81
18	Sol-gel synthesis of TiO ₂ -SiO ₂ photocatalyst for 2-naphthol photodegradation. <i>Materials Science and Engineering C</i> , 2009, 29, 1616-1620.	3.8	69

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19	Biosorption potential of <i>Diplotaxis harra</i> and <i>Glebionis coronaria</i> L. biomasses for the removal of Cd(II) and Co(II) from aqueous solutions. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 822-830.	3.3	69
20	SARS-CoV-2 in hospital wastewater during outbreak of COVID-19: A review on detection, survival and disinfection technologies. <i>Science of the Total Environment</i> , 2021, 761, 143192.	3.9	69
21	Biosorption characteristics of Cadmium(II) onto <i>Scolymus hispanicus</i> L. as low-cost natural biosorbent. <i>Desalination</i> , 2010, 258, 66-71.	4.0	64
22	Removal of emerging pharmaceutical pollutants: A systematic mapping study review. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104251.	3.3	62
23	Adsorption of Disperse Blue SBL dye by synthesized poorly crystalline hydroxyapatite. <i>Journal of Environmental Sciences</i> , 2008, 20, 1268-1272.	3.2	61
24	The state of art on the prediction of efficiency and modeling of the processes of pollutants removal based on machine learning. <i>Science of the Total Environment</i> , 2022, 807, 150554.	3.9	59
25	Defluoridation of groundwater by calcined Mg/Al layered double hydroxide. <i>Emerging Contaminants</i> , 2016, 2, 42-48.	2.2	58
26	Photocatalytic degradation of caffeine as a model pharmaceutical pollutant on Mg doped ZnO-Al ₂ O ₃ heterostructure. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2018, 10, 63-72.	1.7	56
27	Highly efficient activated carbon from <i>Glebionis coronaria</i> L. biomass: Optimization of preparation conditions and heavy metals removal using experimental design approach. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 4549-4564.	3.3	54
28	A combined molecular dynamic simulation, DFT calculations, and experimental study of the eriochrome black T dye adsorption onto chitosan in aqueous solutions. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 707-721.	3.6	54
29	Photocatalytic degradation of caffeine by ZnO-ZnAl ₂ O ₄ nanoparticles derived from LDH structure. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3719-3726.	3.3	48
30	Activated carbon from <i>Diplotaxis Harra</i> biomass: Optimization of preparation conditions and heavy metal removal. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 59, 348-358.	2.7	46
31	Photocatalytic degradation of 2,4-D and 2,4-DP herbicides on Pt/TiO ₂ nanoparticles. <i>Journal of Saudi Chemical Society</i> , 2015, 19, 485-493.	2.4	45
32	Adsorption mechanisms investigation of methylene blue on the (0 0 1) zeolite 4A surface in aqueous medium by computational approach and molecular dynamics. <i>Applied Surface Science</i> , 2022, 572, 151381.	3.1	41
33	Experimental design for the optimization of preparation conditions of highly efficient activated carbon from <i>Glebionis coronaria</i> L. and heavy metals removal ability. <i>Chemical Engineering Research and Design</i> , 2016, 102, 710-723.	2.7	40
34	Chemically modified carbon-based electrodes for the determination of paracetamol in drugs and biological samples. <i>Journal of Pharmaceutical Analysis</i> , 2021, 11, 138-154.	2.4	40
35	Full factorial experimental design applied to oxalic acid photocatalytic degradation in TiO ₂ aqueous suspension. <i>Arabian Journal of Chemistry</i> , 2014, 7, 752-757.	2.3	39
36	Alkaline treated carob shells as sustainable biosorbent for clean recovery of heavy metals: Kinetics, equilibrium, ions interference and process optimisation. <i>Ecological Engineering</i> , 2017, 101, 9-20.	1.6	39

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37	Adsorption of Eriochrome Black T on the chitin surface: Experimental study, DFT calculations and molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2021, 331, 115706.	2.3	39
38	Polyaniline/Nanomaterial Composites for the Removal of Heavy Metals by Adsorption: A Review. <i>Journal of Composites Science</i> , 2021, 5, 233.	1.4	38
39	Heterogeneous Fenton-like degradation of tartrazine using CuFe ₂ O ₄ nanoparticles synthesized by sol-gel combustion. <i>Applied Surface Science Advances</i> , 2022, 9, 100251.	2.9	34
40	Effects of molar ratio and calcination temperature on the adsorption performance of Zn/Al layered double hydroxide nanoparticles in the removal of pharmaceutical pollutants. <i>Journal of Science: Advanced Materials and Devices</i> , 2018, 3, 188-195.	1.5	33
41	Synthesis, characterization and efficient photocatalytic activity of novel Ca/ZnO-Al ₂ O ₃ nanomaterial. <i>Materials Today Communications</i> , 2018, 16, 194-203.	0.9	31
42	Kinetics and equilibrium of cadmium removal from aqueous solutions by sorption onto synthesized hydroxyapatite. <i>Desalination and Water Treatment</i> , 2012, 43, 8-16.	1.0	30
43	Olive mill wastewater treatment using infiltration percolation in column followed by aerobic biological treatment. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	29
44	Statistical optimization of activated carbon from <i>Thapsia transtagana</i> stems and dyes removal efficiency using central composite design. <i>Journal of Science: Advanced Materials and Devices</i> , 2019, 4, 544-553.	1.5	28
45	Electrochemical sensors and biosensors for the determination of diclofenac in pharmaceutical, biological and water samples. <i>Talanta Open</i> , 2021, 3, 100026.	1.7	28
46	Enhanced photocatalytic degradation of caffeine as a model pharmaceutical pollutant by Ag-ZnO-Al ₂ O ₃ nanocomposite. , 0, 94, 254-262.		28
47	Theoretical and experimental study of the adsorption characteristics of Methylene Blue on titanium dioxide surface using DFT and Monte Carlo dynamic simulation. , 0, 190, 393-411.		26
48	Treatment of textile effluents by chloride-intercalated Zn-, Mg- and Ni-Al layered double hydroxides. <i>Journal of Water Reuse and Desalination</i> , 2017, 7, 307-318.	1.2	25
49	PHOTOCATALYTIC DEGRADATION OF PATENT BLUE V BY SUPPORTED TiO ₂ : KINETICS, MINERALIZATION, AND REACTION PATHWAY. <i>Chemical Engineering Communications</i> , 2011, 198, 1233-1243.	1.5	24
50	Removal of Cd(II) and Co(II) ions from aqueous solutions by polypyrrole particles: Kinetics, equilibrium and thermodynamics. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 2969-2974.	2.7	23
51	Recent advances in the synthesis and environmental catalytic applications of layered double hydroxides-based materials for degradation of emerging pollutants through advanced oxidation processes. <i>Materials Research Bulletin</i> , 2022, 154, 111924.	2.7	23
52	Dye removal from aqueous solution by raw maize corncob and H ₃ PO ₄ activated maize corncob. <i>Journal of Water Reuse and Desalination</i> , 2018, 8, 214-224.	1.2	22
53	Adsorption of methylene blue cationic dye onto brookite and rutile phases of titanium dioxide: Quantum chemical and molecular dynamic simulation studies. <i>Inorganic Chemistry Communication</i> , 2021, 129, 108659.	1.8	21
54	Nanostructured layered double hydroxides based photocatalysts: Insight on synthesis methods, application in water decontamination/splitting and antibacterial activity. <i>Surfaces and Interfaces</i> , 2021, 25, 101263.	1.5	21

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55	Degradation of Phenol in Water by Titanium Dioxide Photocatalysis. <i>Oriental Journal of Chemistry</i> , 2013, 29, 1055-1060.	0.1	20
56	M-Al-SO ₄ layered double hydroxides (M=Zn, Mg or Ni): synthesis, characterization and textile dyes removal efficiency. <i>Desalination and Water Treatment</i> , 2016, 57, 21564-21576.	1.0	19
57	Experimental and modeling studies of the removal of phenolic compounds from olive mill wastewater by adsorption on sugarcane bagasse. <i>Environmental Challenges</i> , 2021, 4, 100184.	2.0	19
58	New Evidence of the Enhanced Elimination of a Persistent Drug Used as a Lipid Absorption Inhibitor by Advanced Oxidation with UV-A and Nanosized Catalysts. <i>Catalysts</i> , 2019, 9, 761.	1.6	18
59	Characteristics and mechanisms of methyl orange sorption onto Zn/Al layered double hydroxide intercalated by dodecyl sulfate anion. <i>Scientific African</i> , 2019, 6, e00216.	0.7	18
60	Novel Ag-ZnO-La ₂ O ₃ photocatalysts derived from the Layered Double Hydroxide structure with excellent photocatalytic performance for the degradation of pharmaceutical compounds. <i>Journal of Science: Advanced Materials and Devices</i> , 2019, 4, 34-46.	1.5	18
61	Effectiveness of beetroot seeds and H ₃ PO ₄ activated beetroot seeds for the removal of dyes from aqueous solutions. <i>Journal of Water Reuse and Desalination</i> , 2018, 8, 522-531.	1.2	17
62	ZnO-Al ₂ O ₃ -CeO ₂ -Ce ₂ O ₃ mixed metal oxides as a promising photocatalyst for methyl orange photocatalytic degradation. <i>Materials Today Chemistry</i> , 2021, 21, 100495.	1.7	16
63	Adsorptive removal of heavy metals from aqueous solution using chemically activated <i>Diplotaxis Harra</i> biomass. <i>Surfaces and Interfaces</i> , 2016, 4, 84-94.	1.5	13
64	Ni-Fe-SDS and Ni-Fe-SO ₄ layered double hydroxides: Preparation, characterization and application in dyes removal. <i>Materials Today: Proceedings</i> , 2021, 37, 3871-3875.	0.9	13
65	Potential capability of natural biosorbents: <i>Diplotaxis harra</i> and <i>Glebionis coronaria</i> L. on the removal efficiency of dyes from aqueous solutions. <i>Desalination and Water Treatment</i> , 2016, 57, 16633-16642.	1.0	12
66	Simultaneous H ₂ Production and Bleaching via Solar Photoreforming of Model Dye-polluted Wastewaters on Metal/Titania. <i>ChemCatChem</i> , 2021, 13, 1513-1529.	1.8	12
67	Decantamination of Textile Wastewater by Powdered Activated Carbon. <i>Journal of Applied Sciences</i> , 2006, 6, 692-695.	0.1	12
68	HF and SiF ₄ adsorption on carbon graphite (1 1 1) surface in aqueous medium: A combined DFT and MD simulation approach. <i>Materials Today: Proceedings</i> , 2021, 37, 3987-3993.	0.9	11
69	Box-Cox design for understanding of adsorption behaviors of cationic and anionic dyes by activated carbon. , 0, 212, 204-211.		11
70	Combined DFT and MD simulation approach for the study of SO ₂ and CO ₂ adsorption on graphite (111) surface in aqueous medium. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100085.	2.9	11
71	Optimal Decolorization Efficiency of Indigo Carmine by TiO ₂ /UV Photocatalytic Process Coupled with Response Surface Methodology. <i>Oriental Journal of Chemistry</i> , 2012, 28, 1091-1098.	0.1	11
72	Patent Blue V Dye Adsorption by Fresh and Calcined Zn/Al LDH: Effect of Process Parameters and Experimental Design Optimization. <i>Journal of Composites Science</i> , 2022, 6, 115.	1.4	11

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73	Experimental design, machine learning approaches for the optimization and modeling of caffeine adsorption. <i>Materials Today Chemistry</i> , 2022, 23, 100732.	1.7	10
74	Modeling of photocatalytic mineralization of phthalic acid in TiO ₂ suspension using response surface methodology (RSM). <i>Desalination and Water Treatment</i> , 2015, 53, 249-256.	1.0	8
75	New Sustainable Biosorbent Based on Recycled Deoiled Carob Seeds: Optimization of Heavy Metals Remediation. <i>Journal of Chemistry</i> , 2018, 2018, 1-16.	0.9	8
76	Removal of Textile Dyes by Chemically Treated Sawdust of Acacia: Kinetic and Equilibrium Studies. <i>Journal of Chemistry</i> , 2020, 2020, 1-12.	0.9	8
77	Sorption of methyl orange dye by dodecyl-sulfate intercalated Mg-Al layered double hydroxides. <i>Materials Today: Proceedings</i> , 2021, 37, 3894-3897.	0.9	7
78	Activated carbon from <i>Thapsia transtagana</i> stems: central composite design (CCD) optimization of the preparation conditions and efficient dyes removal. , 0, 166, 259-278.		7
79	Removal of cadmium ions by magnesium phosphate: Kinetics, isotherm, and mechanism studies. <i>Applied Surface Science Advances</i> , 2022, 9, 100263.	2.9	7
80	Sol-gel auto-combustion synthesis of Cu _{1-x} Mg _x Fe ₂ O ₄ nanoparticles and their heterogenous Fenton-like activity towards tartrazine. <i>Inorganic Chemistry Communication</i> , 2022, 142, 109717.	1.8	7
81	Effect of aluminium incorporation on physicochemical properties and patent blue V photodegradation of magnesium phosphate materials. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	5
82	Synthetic dyes adsorption and discoloration of a textile wastewater effluent by H ₃ PO ₄ and H ₃ BO ₃ activated <i>Thapsia transtagana</i> biomass. , 0, 202, 435-449.		5
83	Facile nitric acid activation of carob seeds for efficient recovery of heavy metals from water. , 0, 204, 174-188.		5
84	Study of the effect of pH, conditioning and flotation time on the flotation efficiency of phosphate ores by a soybean oil collector. , 2022, 32, 101-108.		5
85	Comparative analysis of response surface methodology and some artificial intelligence models in the prediction of methyl green degradation by Fenton process. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 7339-7356.	1.8	4
86	Enhanced adsorptive removal of cationic dyes from aqueous solution by chemically treated carob shells. , 0, 100, 204-213.		4
87	Physicochemical characterization of natural sand from the south-east of Morocco and its potential use as sorbent for dyes removal. , 0, 146, 362-372.		4
88	Physicochemical Characterization of Moroccan Natural Clays and the Study of their Adsorption Capacity for the Methyl Orange and Methylene. <i>Journal of Environmental Treatment Techniques (discontinued)</i> , 2020, 8, 1258-1267.	0.5	4
89	Process optimization of potassium hydroxide activated carbon from carob shell biomass and heavy metals removal ability using Box-Behnken design. , 0, 133, 153-166.		3
90	Natural Phosphates Characterization and Evaluation of their Removal Efficiency of Methylene Blue and Methyl Orange from Aqueous Media. <i>Environment and Natural Resources Journal</i> , 2022, 20, 1-13.	0.4	3

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91	A regio- and stereoselectivity and molecular mechanism study on the addition reactions of morpholine and m-CPBA to 9 β -hydroxyparthenolide using DFT calculations. Mediterranean Journal of Chemistry, 2020, 10, .	0.3	3
92	Optimization of Coagulation/Flocculation Process for Landfill Leachate Treatment Using Boxâ€Behnken Design. Advances in Science, Technology and Innovation, 2018, , 167-168.	0.2	2
93	Understanding the Mechanism and Selectivities of the Reaction of Meta-Chloroperbenzoic Acid and Dibromocarbene with <i>trans</i> -Himachalene: A DFT Study. Heteroatom Chemistry, 2020, 2020, 1-8.	0.4	2
94	Gallic acid removal using fresh and calcined Ni-Al layered double hydroxides: Kinetics, equilibrium and response surface methodology (RSM) optimisation. International Journal of Environmental Analytical Chemistry, 0, , 1-25.	1.8	2
95	Isolement, Identification Et Activite Antifongique De Deux Sesquiterpenes Dâ€™ <i>Asteriscus Graveolens</i> Subsp. Odorus (Schousb.) Greuter. European Scientific Journal, 2016, 12, 112.	0.0	2
96	EFFICIENT REMOVAL OF HEAVY METALS BY KOH ACTIVATED <i>Diplotaxis harra</i> BIOMASS: EXPERIMENTAL DESIGN OPTIMIZATION. Environmental Engineering and Management Journal, 2019, 18, 651-664.	0.2	2
97	Zinc chloride activation of carob shells for heavy metals removal from water: statistical optimisation, characterisation and isotherm modelling. International Journal of Environmental Analytical Chemistry, 2022, 102, 3961-3974.	1.8	1
98	Comparative adsorption of methyl orange on SO ₄ ²⁻ and SDS intercalated Mg-Fe layered double hydroxides. International Journal of Environmental Analytical Chemistry, 2023, 103, 7182-7197.	1.8	1
99	Biosorption potential of <i>Thapsia transtagana</i> stems for the removal of dyes: kinetics, equilibrium and thermodynamics. , 0, 126, 324-332.		1
100	Structural and morphological investigations of nanolayered double hydroxides as effective adsorbents of methyl orange. Emergent Materials, 2022, 5, 155-165.	3.2	1
101	Current Treatment of Textile Dyes Using Potential Adsorbents: Mechanism and Comparative Approaches. Sustainable Textiles, 2021, , 159-184.	0.4	0
102	Classification of the geographical origin of argan kernels by infrared spectroscopy and chemometrics. Egyptian Journal of Chemistry, 2021, .	0.1	0
103	Activite Antifongique Des Flavonoïdes Isoles De La Plante <i>Asteriscus Graveolens</i> Subsp. Odorus (Schousb.) Greuter. European Scientific Journal, 2016, 12, 258.	0.0	0
104	Effet De La Pollution Minière Sur La Phytochimie Dâ€™ <i>Argania spinosa</i> (L.) Skeels. European Scientific Journal, 2016, 12, 442.	0.0	0