

# Abdelbaki Benamor

## List of Publications by Citations

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99  
papers

2,562  
citations

28  
h-index

48  
g-index

109  
ext. papers

3,230  
ext. citations

4.7  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
99	Recent progress and new developments in post-combustion carbon-capture technology with amine based solvents. <i>International Journal of Greenhouse Gas Control</i> , <b>2015</b> , 40, 26-54	4.2	291
98	Adsorption of organic pollutants by natural and modified clays: A comprehensive review. <i>Separation and Purification Technology</i> , <b>2019</b> , 228, 115719	8.3	202
97	Development of polysulfone-nanohybrid membranes using ZnO-GO composite for enhanced antifouling and antibacterial control. <i>Desalination</i> , <b>2017</b> , 402, 123-132	10.3	140
96	Modeling of CO <sub>2</sub> solubility and carbamate concentration in DEA, MDEA and their mixtures using the Deshmukh-Mather model. <i>Fluid Phase Equilibria</i> , <b>2005</b> , 231, 150-162	2.5	133
95	Analysis of Equilibrium Data of CO <sub>2</sub> in Aqueous Solutions of Diethanolamine (DEA), Methyldiethanolamine (MDEA) and Their Mixtures Using the Modified Kent Eisenberg Model. <i>Chemical Engineering Research and Design</i> , <b>1998</b> , 76, 961-968	5.5	106
94	Influence of polyelectrolytes and other polymer complexes on the flocculation and rheological behaviors of clay minerals: A comprehensive review. <i>Separation and Purification Technology</i> , <b>2017</b> , 187, 137-161	8.3	80
93	Carbon dioxide (CO <sub>2</sub> ) capture: Absorption-desorption capabilities of 2-amino-2-methyl-1-propanol (AMP), piperazine (PZ) and monoethanolamine (MEA) tri-solvent blends. <i>Journal of Natural Gas Science and Engineering</i> , <b>2016</b> , 33, 742-750	4.6	78
92	Synthesis of minimal-size ZnO nanoparticles through sol-gel method: Taguchi design optimisation. <i>Materials and Design</i> , <b>2015</b> , 87, 780-787	8.1	64
91	Reducing energy consumption of CO <sub>2</sub> desorption in CO <sub>2</sub> -loaded aqueous amine solution using Al <sub>2</sub> O <sub>3</sub> /HZSM-5 bifunctional catalysts. <i>Applied Energy</i> , <b>2018</b> , 229, 562-576	10.7	64
90	Adsorption of organic pollutants by nanomaterial-based adsorbents: An overview. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 301, 112335	6	63
89	Synthesis of new amines for enhanced carbon dioxide (CO <sub>2</sub> ) capture performance: The effect of chemical structure on equilibrium solubility, cyclic capacity, kinetics of absorption and regeneration, and heats of absorption and regeneration. <i>Separation and Purification Technology</i> , <b>2019</b> , 217, 27-407	8.3	63
88	Heat duty, heat of absorption, sensible heat and heat of vaporization of 2-Amino-2-Methyl-1-Propanol (AMP), Piperazine (PZ) and Monoethanolamine (MEA) tri-solvent blend for carbon dioxide (CO <sub>2</sub> ) capture. <i>Chemical Engineering Science</i> , <b>2017</b> , 170, 26-35	4.4	61
87	Optimization of nickel oxide nanoparticle synthesis through the sol-gel method using Box-Behnken design. <i>Materials and Design</i> , <b>2015</b> , 86, 948-956	8.1	54
86	Carbon dioxide (CO <sub>2</sub> ) capture performance of aqueous tri-solvent blends containing 2-amino-2-methyl-1-propanol (AMP) and methyldiethanolamine (MDEA) promoted by diethylenetriamine (DETA). <i>International Journal of Greenhouse Gas Control</i> , <b>2016</b> , 53, 292-304	4.2	54
85	Advancement and new perspectives of using formulated reactive amine blends for post-combustion carbon dioxide (CO <sub>2</sub> ) capture technologies. <i>Petroleum</i> , <b>2017</b> , 3, 10-36	4.1	45
84	Investigation of the effect of polyelectrolyte structure and type on the electrokinetics and flocculation behavior of bentonite dispersions. <i>Chemical Engineering Journal</i> , <b>2017</b> , 311, 265-276	14.7	45
83	A comprehensive review on the rheological behavior of imidazolium based ionic liquids and natural deep eutectic solvents. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 277, 932-958	6	38

82	Intercalation of ionic liquids into bentonite: Swelling and rheological behaviors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 507, 141-151	5.1	37
81	Functionalization of zinc oxide (ZnO) nanoparticles and its effects on polysulfone-ZnO membranes. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 7801-7811		36
80	Simultaneous removal of Congo red and cadmium(II) from aqueous solutions using graphene oxide-silica composite as a multifunctional adsorbent. <i>Journal of Environmental Sciences</i> , <b>2020</b> , 98, 151-160	6.4	34
79	Fabrication of high flux nanofiltration membrane via hydrogen bonding based co-deposition of polydopamine with poly(vinyl alcohol). <i>Journal of Membrane Science</i> , <b>2018</b> , 552, 222-233	9.6	32
78	Hybrid chitosan/FeCl <sub>3</sub> coagulation-membrane processes: Performance evaluation and membrane fouling study in removing natural organic matter. <i>Separation and Purification Technology</i> , <b>2015</b> , 152, 23-31	8.3	31
77	Effects of sodium carbonate addition, heat and agitation on swelling and rheological behavior of Ca-bentonite colloidal dispersions. <i>Applied Clay Science</i> , <b>2017</b> , 147, 176-183	5.2	31
76	Size and shape controlled of Fe <sub>2</sub> O <sub>3</sub> nanoparticles prepared via sol-gel technique and their photocatalytic activity. <i>Journal of Sol-Gel Science and Technology</i> , <b>2017</b> , 81, 880-893	2.3	31
75	Equilibrium Constant for Carbamate Formation from Monoethanolamine and Its Relationship with Temperature. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1999</b> , 44, 887-891	2.8	31
74	Chitosan as natural coagulant in hybrid coagulation-nanofiltration membrane process for water treatment. <i>Journal of Environmental Chemical Engineering</i> , <b>2016</b> , 4, 4857-4862	6.8	29
73	Platinum degradation mechanisms in proton exchange membrane fuel cell (PEMFC) system: A review. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 15850-15865	6.7	29
72	Effect of electrolytes on electrokinetics and flocculation behavior of bentonite-polyacrylamide dispersions. <i>Applied Clay Science</i> , <b>2018</b> , 158, 46-54	5.2	28
71	An experimental investigation on the rate of CO <sub>2</sub> absorption into aqueous methyldiethanolamine solutions. <i>Korean Journal of Chemical Engineering</i> , <b>2007</b> , 24, 16-23	2.8	28
70	Carbon Mineralization by Reaction with Steel-Making Waste: A Review. <i>Processes</i> , <b>2019</b> , 7, 115	2.9	26
69	Hybrid coagulation-NF membrane process for brackish water treatment: Effect of antiscalant on water characteristics and membrane fouling. <i>Desalination</i> , <b>2016</b> , 393, 144-150	10.3	24
68	Effect of temperature and fluid speed on the corrosion behavior of carbon steel pipeline in Qatari oilfield produced water. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 808, 218-227	4.1	22
67	Reaction Kinetics of Carbon Dioxide (CO <sub>2</sub> ) with Diethylenetriamine and 1-Amino-2-propanol in Nonaqueous Solvents Using Stopped-Flow Technique. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 7307-7317	3.9	22
66	Effect of membrane performance including fouling on cost optimization in brackish water desalination process. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 117, 401-413	5.5	22
65	Hybrid coagulation-NF membrane processes for brackish water treatment: Effect of pH and salt/calcium concentration. <i>Desalination</i> , <b>2016</b> , 390, 25-32	10.3	21

64	A hybrid electro-coagulation/forward osmosis system for treatment of produced water. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2019</b> , 143, 107621	3.7	20
63	A comparative study of novel activated AMP using 1,5-diamino-2-methylpentane vs MEA solution for CO <sub>2</sub> capture from gas-fired power plant. <i>Fuel</i> , <b>2018</b> , 234, 1089-1098	7.1	19
62	Solar photocatalytic degradation of 2-chlorophenol with ZnO nanoparticles: optimisation with D-optimal design and study of intermediate mechanisms. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 2804-2819	5.1	19
61	Organically Modified Nanoclay Filled Thin-Film Nanocomposite Membranes for Reverse Osmosis Application. <i>Materials</i> , <b>2019</b> , 12,	3.5	19
60	Arabic gum as green agent for ZnO nanoparticles synthesis: properties, mechanism and antibacterial activity. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 12100-12107	2.1	17
59	Synthesis and characterization of Sm <sup>3+</sup> -doped ZnO nanoparticles via a sol-gel method and their photocatalytic application. <i>Journal of Sol-Gel Science and Technology</i> , <b>2018</b> , 85, 178-190	2.3	17
58	Kinetic of CO <sub>2</sub> absorption and carbamate formation in aqueous solutions of diethanolamine. <i>Korean Journal of Chemical Engineering</i> , <b>2008</b> , 25, 451-460	2.8	17
57	Synthesis and characterisation of Co <sup>2+</sup> -incorporated ZnO nanoparticles prepared through a sol-gel method. <i>Advanced Powder Technology</i> , <b>2016</b> , 27, 2439-2447	4.6	15
56	Electroreduction of Carbon Dioxide into Formate: A Comprehensive Review. <i>ChemElectroChem</i> , <b>2021</b> , 8, 3207-3220	4.3	15
55	Impact of combined oil-in-water emulsions and particulate suspensions on ceramic membrane fouling and permeability recovery. <i>Separation and Purification Technology</i> , <b>2019</b> , 212, 215-222	8.3	15
54	Reaction kinetics of carbon dioxide with aqueous solutions of l-Arginine, Glycine & Sarcosine using the stopped flow technique. <i>International Journal of Greenhouse Gas Control</i> , <b>2017</b> , 63, 47-58	4.2	14
53	Fabrication of polysulfone nanocomposite membranes with silver-doped carbon nanotubes and their antifouling performance. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	14
52	Distinguishing characteristics and usability of graphene oxide based on different sources of graphite feedstock. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 542, 429-440	9.3	14
51	Effect of the induced dielectrophoretic force on harvesting of marine microalgae ( <i>Tetraselmis</i> sp.) in electrocoagulation. <i>Journal of Environmental Management</i> , <b>2020</b> , 260, 110106	7.9	14
50	A novel cylindrical electrode configuration for inducing dielectrophoretic forces during electrocoagulation. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 35, 101195	6.7	13
49	Corrosion Behavior of API X100 Steel Material in a Hydrogen Sulfide Environment. <i>Metals</i> , <b>2017</b> , 7, 109	2.3	13
48	Microwave-assisted conversion of palm kernel shell biomass waste to photoluminescent carbon dots. <i>Scientific Reports</i> , <b>2020</b> , 10, 21199	4.9	12
47	Reaction kinetics of carbon dioxide in aqueous blends of N-methyldiethanolamine and glycine using the stopped flow technique. <i>Journal of Natural Gas Science and Engineering</i> , <b>2016</b> , 33, 186-195	4.6	12

46	The emergence of multifunctional adsorbents and their role in environmental remediation. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104793	6.8	12
45	Removal of Oil Content from Oil-Water Emulsions Using Iron Oxide/Bentonite Nano Adsorbents. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 38, 101583	6.7	11
44	Photocatalytic Degradation of Pentachlorophenol Using ZnO Nanoparticles: Study of Intermediates and Toxicity. <i>International Journal of Environmental Research</i> , <b>2017</b> , 11, 461-473	2.9	10
43	CO2 capture from lime kiln using AMP-DA2MP amine solvent blend: A pilot plant study. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 7102-7110	6.8	10
42	Enhancement of flocculation and dewaterability of a highly stable activated sludge using a hybrid system of organic coagulants and polyelectrolytes. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 35, 101237	6.7	8
41	Flocculation and viscoelastic behavior of industrial papermaking suspensions. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 448-455	2.8	8
40	Reactive Absorption of CO2 into Aqueous Mixtures of Methyl-diethanolamine and Diethanolamine. <i>International Journal of Chemical Engineering and Applications (IJCEA)</i> , <b>2014</b> , 5, 291-297	0.2	8
39	Influence of polyelectrolyte structure and type on the degree of flocculation and rheological behavior of industrial MBR sludge. <i>Separation and Purification Technology</i> , <b>2020</b> , 233, 116001	8.3	8
38	Thermo-rheological characterization of Malic Acid based Natural Deep Eutectic Solvents. <i>Science of the Total Environment</i> , <b>2020</b> , 708, 134848	10.2	8
37	Choline chloride based natural deep eutectic solvent for destabilization and separation of stable colloidal dispersions. <i>Separation and Purification Technology</i> , <b>2021</b> , 255, 117737	8.3	8
36	CO2 capture from water-gas shift process plant: Comparative bench-scale pilot plant investigation of MDEA-PZ blend vs novel MDEA activated by 1,5-diamino-2-methylpentane. <i>International Journal of Greenhouse Gas Control</i> , <b>2019</b> , 82, 218-228	4.2	7
35	Regeneration Energy Analysis of Aqueous TriSolvent Blends Containing 2-Amino-2-Methyl-1-Propanol (AMP), Methyl-diethanolamine (MDEA) and Diethylenetriamine (DETA) for Carbon Dioxide (CO2) Capture. <i>Energy Procedia</i> , <b>2017</b> , 114, 2039-2046	2.3	7
34	Effects of amphiphilic pluronic F127 on the performance of PS/SPEEK blend ultrafiltration membrane: Characterization and antifouling study. <i>Journal of Water Process Engineering</i> , <b>2017</b> , 18, 176-184	6.7	7
33	Corrosion study of carbon steel in CO2 loaded solution of N-methyl-diethanolamine and l-arginine mixtures. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 837, 10-21	4.1	7
32	Nanoparticles functionalized ceramic membranes: fabrication, surface modification, and performance. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 12256-12281	5.1	7
31	Reaction Kinetics of Carbon Dioxide with 2-Amino-1-butanol in Aqueous Solutions Using a Stopped-Flow Technique. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 2797-2804	3.9	6
30	An Investigation of the Swelling Kinetics of Bentonite Systems Using Particle Size Analysis. <i>Journal of Dispersion Science and Technology</i> , <b>2020</b> , 41, 817-827	1.5	6
29	Effective Heterogeneous Fenton-Like degradation of Malachite Green Dye Using the Core-Shell Fe3O4@SiO2 Nano-Catalyst. <i>ChemistrySelect</i> , <b>2021</b> , 6, 865-875	1.8	6

28	Reaction Kinetics of Carbon Dioxide in Aqueous Blends of N-Methyldiethanolamine and L-Arginine Using the Stopped-Flow Technique. <i>Processes</i> , <b>2019</b> , 7, 81	2.9	5
27	Absorption of CO <sub>2</sub> in aqueous blend of methyldiethanolamine and arginine. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2020</b> , 15, e2460	1.3	5
26	Carbamate Formation and Amine Protonation Constants in 2-Amino-1-Butanol-CO <sub>2</sub> -H <sub>2</sub> O System and Their Temperature Dependences. <i>Journal of Solution Chemistry</i> , <b>2018</b> , 47, 262-277	1.8	5
25	Evaluation of the current state and perspective of wastewater treatment and reuse in Qatar	71, 1-11	5
24	Destabilization of stable bentonite colloidal suspension using choline chloride based deep eutectic solvent: Optimization study. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 40, 101885	6.7	4
23	Experimental determination of carbamate formation and amine protonation constants in 3-amino-1-propanol-CO <sub>2</sub> -H <sub>2</sub> O system and their temperature dependency. <i>International Journal of Greenhouse Gas Control</i> , <b>2015</b> , 37, 237-242	4.2	3
22	FeO/graphene oxide powder and thin film nanocomposites as peculiar photocatalysts for dye removal from wastewater. <i>Scientific Reports</i> , <b>2021</b> , 11, 20378	4.9	3
21	Corrosion Behavior of API-X120 Carbon Steel Alloy in a GTL F-T Process Water Environment at Low COD Concentration. <i>Metals</i> , <b>2020</b> , 10, 707	2.3	2
20	Gas Processing Technology-Treatment and Utilization	<b>2017</b> , 359-387	2
19	Modeling Analysis of Corrosion Behavior of Carbon Steel in CO <sub>2</sub> Loaded Amine Solutions. <i>International Journal of Chemical Engineering and Applications (IJCEA)</i> , <b>2014</b> , 5, 353-358	0.2	2
18	Biotechnology for Gas-to-Liquid (GTL) Wastewater Treatment: A Review. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2126	3	2
17	Thermal degradation of aqueous amine/amino acid solutions in the presence and absence of CO <sub>2</sub> . <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 423, 012154	0.4	2
16	Kinetics of CO <sub>2</sub> Absorption Into Aqueous Blends of Diethanolamine and Methyldiethanolamine	<b>2012</b> , 64-70	1
15	Absorption of Carbon Dioxide into Piperazine Activated Diethanolamine Solutions	<b>2012</b> , 42-49	1
14	Experimental measurements and modelling of viscosity and density of calcium and potassium chlorides ternary solutions. <i>Scientific Reports</i> , <b>2020</b> , 10, 16312	4.9	1
13	Metal-oxide nanotubes functional material tailored for membrane water/wastewater treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 634, 012048	0.4	1
12	Chemical kinetics of carbon dioxide in the blends of different amino acid salts and methyldiethanolamine. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12506-12524	4.5	0
11	Fuzzy Logic-Based Model to Predict the Impact of Flow Rate and Turbidity on the Performance of Multimedia Filters. <i>Journal of Environmental Engineering, ASCE</i> , <b>2017</b> , 143, 04017065	2	0

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|----|--|-----|---|
| 10 | Synthesis and Characterization of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Using Different Experimental Methods. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 778, 012028                         | 0.4 | o |
| 9  | Adsorption of 4-Nitrophenol onto Iron Oxide Bentonite Nanocomposite: Process Optimization, Kinetics, Isotherms and Mechanism. <i>International Journal of Environmental Research</i> , <b>2022</b> , 16, 1                               | 2.9 | o |
| 8  | Membrane Gas Desorption for Natural Gas Treating <b>2015</b> , 233-242   |     |   |
| 7  | Design philosophy GPC high pressure pilot plant <b>2015</b> , 371-378  |     |   |
| 6  | Analysis of CO <sub>2</sub> Solubility and Absorption Heat into Aqueous 1-Diethylamino-2-propanol. <i>Energy Procedia</i> , <b>2017</b> , 114, 873-879   | 2.3 |   |
| 5  | Real-time monitoring of solvent composition for acid gas absorption processes <b>2015</b> , 379-389  |     |   |
| 4  | CO <sub>2</sub> Absorption Capacity and its Enthalpy of Absorption in Aqueous Blend of MDEA/Piperazine/Arginine. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 736, 022088                             | 0.4 |   |
| 3  | Kinetics of CO <sub>2</sub> reaction with N-methyldiethanolamine and aminobutanol using stopped flow technique. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 458, 012063                              | 0.4 |   |
| 2  | Corrosion Study of Carbon Steel in CO <sub>2</sub> Loaded Amine-Amino Acid Solutions-Case of Mixtures of NMethyldiethanolamine and L-Arginine. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2018</b> , 164, 012028 | 0.3 |   |
| 1  | Nanocomposite material-based catalyst, adsorbent, and membranes for petroleum wastewater treatment <b>2022</b> , 147-160   |     |   |