

Aymen Amine Assadi

List of Publications by Citations

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94
papers

2,345
citations

31
h-index

44
g-index

98
ext. papers

3,161
ext. citations

7.2
avg, IF

5.65
L-index

#	Paper	IF	Citations
94	Removal of Methylene Blue from aqueous solutions by adsorption on Kaolin: Kinetic and equilibrium studies. <i>Applied Clay Science</i> , 2018 , 153, 38-45	5.2	324
93	Effective heterogeneous electro-Fenton process for the degradation of a malodorous compound, indole, using iron loaded alginate beads as a reusable catalyst. <i>Applied Catalysis B: Environmental</i> , 2016 , 182, 47-58	21.8	80
92	Electro-Fenton catalyzed with magnetic chitosan beads for the removal of Chlordimeform insecticide. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 346-359	21.8	66
91	Study of a photocatalytic process for removal of antibiotics from wastewater in a falling film photoreactor: Scavenger study and process intensification feasibility. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 122, 213-221	3.7	61
90	Use of DBD plasma, photocatalysis, and combined DBD plasma/photocatalysis in a continuous annular reactor for isovaleraldehyde elimination: Synergetic effect and byproducts identification. <i>Chemical Engineering Journal</i> , 2014 , 254, 124-132	14.7	60
89	Spectroscopic and luminescence characteristics of erbium doped TNZL glass for lasing materials. <i>Journal of Alloys and Compounds</i> , 2015 , 620, 129-136	5.7	59
88	Activation of persulfate by irradiated laterite for removal of fluoroquinolones in multi-component systems. <i>Journal of Hazardous Materials</i> , 2018 , 346, 159-166	12.8	56
87	Photocatalytic oxidation of trimethylamine and isovaleraldehyde in an annular reactor: Influence of the mass transfer and the relative humidity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012 , 236, 61-69	4.7	53
86	Study of synergetic effect, catalytic poisoning and regeneration using dielectric barrier discharge and photocatalysis in a continuous reactor: Abatement of pollutants in air mixture system. <i>Applied Catalysis B: Environmental</i> , 2017 , 213, 53-61	21.8	47
85	Simultaneous removal of antibiotics and inactivation of antibiotic-resistant bacteria by photocatalysis: A review. <i>Journal of Water Process Engineering</i> , 2021 , 42, 102089	6.7	47
84	A new hetero-junction p-CuO/n-ZnO for the removal of amoxicillin by photocatalysis under solar irradiation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 68, 254-265	5.3	45
83	Pilot scale degradation of mono and multi volatile organic compounds by surface discharge plasma/TiO reactor: Investigation of competition and synergism. <i>Journal of Hazardous Materials</i> , 2018 , 357, 305-313	12.8	44
82	Synthesis of novel biocomposite powder for simultaneous removal of hazardous ciprofloxacin and methylene blue: Central composite design, kinetic and isotherm studies using Brouers-Sotolongo family models. <i>Journal of Hazardous Materials</i> , 2020 , 387, 121675	12.8	44
81	Review on discharge Plasma for water treatment: mechanism, reactor geometries, active species and combined processes. <i>Journal of Water Process Engineering</i> , 2020 , 38, 101664	6.7	42
80	Bacterial adhesion and inactivation on Ag decorated TiO-nanotubes under visible light: Effect of the nanotubes geometry on the photocatalytic activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 170, 92-98	6	41
79	Optimization of a cationic dye removal by a chemically modified agriculture by-product using response surface methodology: biomasses characterization and adsorption properties. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 9831-9846	5.1	41
78	Photocatalytic indoor/outdoor air treatment and bacterial inactivation on CuxO/TiO ₂ prepared by HiPIMS on polyester cloth under low intensity visible light. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118074	21.8	40

77	Abatement of ammonia and butyraldehyde under non-thermal plasma and photocatalysis: Oxidation processes for the removal of mixture pollutants at pilot scale. <i>Chemical Engineering Journal</i> , 2018 , 344, 165-172	14.7	39
76	Association of surface dielectric barrier discharge and photocatalysis in continuous reactor at pilot scale: Butyraldehyde oxidation, by-products identification and ozone valorization. <i>Chemical Engineering Journal</i> , 2016 , 292, 276-283	14.7	38
75	Modeling of a continuous photocatalytic reactor for isovaleraldehyde oxidation: Effect of different operating parameters and chemical degradation pathway. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 1307-1316	5.5	37
74	Reactive oxygen and iron species monitoring to investigate the electro-Fenton performances. Impact of the electrochemical process on the biodegradability of metronidazole and its by-products. <i>Chemosphere</i> , 2018 , 199, 486-494	8.4	36
73	Modeling and simulation of VOCs removal by nonthermal plasma discharge with photocatalysis in a continuous reactor: Synergetic effect and mass transfer. <i>Chemical Engineering Journal</i> , 2014 , 258, 119-127	14.7	36
72	A study of pollution removal in exhaust gases from animal quartering centers by combining photocatalysis with surface discharge plasma: From pilot to industrial scale. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 111, 1-6	3.7	36
71	Metronidazole removal by means of a combined system coupling an electro-Fenton process and a conventional biological treatment: By-products monitoring and performance enhancement. <i>Journal of Hazardous Materials</i> , 2018 , 359, 85-95	12.8	35
70	Use of laterite as a sustainable catalyst for removal of fluoroquinolone antibiotics from contaminated water. <i>Chemosphere</i> , 2018 , 195, 847-853	8.4	34
69	Abatement of 3-methylbutanal and trimethylamine with combined plasma and photocatalysis in a continuous planar reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 282, 1-8	4.7	33
68	Treatment of hospital indoor air by a hybrid system of combined plasma with photocatalysis: Case of trichloromethane. <i>Chemical Engineering Journal</i> , 2018 , 349, 276-286	14.7	33
67	Comparative study between laboratory and large pilot scales for VOCs removal from gas streams in continuous flow surface discharge plasma. <i>Chemical Engineering Research and Design</i> , 2016 , 106, 308-314	5.5	32
66	Dynamic investigations on cationic dye desorption from chemically modified lignocellulosic material using a low-cost eluent: Dye recovery and anodic oxidation efficiencies of the desorbed solutions. <i>Journal of Cleaner Production</i> , 2018 , 201, 28-38	10.3	32
65	Efficiency of DMSO as hydroxyl radical probe in an Electrochemical Advanced Oxidation Process □ Reactive oxygen species monitoring and impact of the current density. <i>Electrochimica Acta</i> , 2017 , 246, 1-8	6.7	31
64	Isovaleraldehyde elimination by UV/TiO ₂ photocatalysis: comparative study of the process at different reactors configurations and scales. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 11178-88	5.1	31
63	Study of synergetic effect by surface discharge plasma/TiO ₂ combination for indoor air treatment: Sequential and continuous configurations at pilot scale. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 310, 148-154	4.7	30
62	Isovaleraldehyde degradation using UV photocatalytic and dielectric barrier discharge reactors, and their combinations. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 299, 110-117	4.7	29
61	Removal of trimethylamine and isovaleric acid from gas streams in a continuous flow surface discharge plasma reactor. <i>Chemical Engineering Research and Design</i> , 2015 , 93, 640-651	5.5	29
60	Recent Applications of Advanced Atomic Force Microscopy in Polymer Science: A Review. <i>Polymers</i> , 2020 , 12,	4.5	28

59	Reactive species monitoring and their contribution for removal of textile effluent with photocatalysis under UV and visible lights: Dynamics and mechanism. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 365, 94-102	4.7	28
58	Chemical treatment of orange tree sawdust for a cationic dye enhancement removal from aqueous solutions: kinetic, equilibrium and thermodynamic studies. <i>Desalination and Water Treatment</i> , 2016 , 57, 22107-22119		27
57	Simultaneous removal of bacteria and volatile organic compounds on Cu ₂ O-NPs decorated TiO ₂ nanotubes: Competition effect and kinetic studies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 400, 112722	4.7	26
56	Discoloration of simulated textile effluent in continuous photoreactor using immobilized titanium dioxide: Effect of zinc and sodium chloride. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 358, 111-120	4.7	26
55	Synergism between non-thermal plasma and photocatalysis: Implications in the post discharge of ozone at a pilot scale in a catalytic fixed-bed reactor. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 227-235	21.8	26
54	Removal of gas-phase ammonia and hydrogen sulfide using photocatalysis, nonthermal plasma, and combined plasma and photocatalysis at pilot scale. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 13127-37	5.1	25
53	Photocatalytic Performance of CuO/TiO ₂ Deposited by HiPIMS on Polyester under Visible Light LEDs: Oxidants, Ions Effect, and Reactive Oxygen Species Investigation. <i>Materials</i> , 2019 , 12,	3.5	24
52	Artificial neural network modeling of cefixime photodegradation by synthesized CoBiO nanoparticles. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 15436-15452	5.1	23
51	A comparative study of ceramic nanoparticles synthesized for antibiotic removal: catalysis characterization and photocatalytic performance modeling. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 13900-13912	5.1	23
50	Structural and electrochemical characterizations of Bi ₁₂ Co ₂ O ₂₀ sillenite crystals: degradation and reduction of organic and inorganic pollutants. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 16411-16420	2.1	22
49	Study of butyraldehyde degradation and by-products formation by using a surface plasma discharge in pilot scale: Process modeling and simulation of relative humidity effect. <i>Chemical Engineering Journal</i> , 2017 , 307, 785-792	14.7	21
48	Indoor air treatment of refrigerated food chambers with synergetic association between cold plasma and photocatalysis: Process performance and photocatalytic poisoning. <i>Chemical Engineering Journal</i> , 2020 , 382, 122951	14.7	20
47	Photocatalytic degradation of binary and ternary mixtures of antibiotics: reactive species investigation in pilot scale. <i>Chemical Engineering Research and Design</i> , 2019 , 144, 300-309	5.5	19
46	Innovative and stable TiO ₂ supported catalytic surfaces removing aldehydes under UV-light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 343, 96-102	4.7	18
45	Synthesis and Characterization of ZnBi ₂ O ₄ Nanoparticles: Photocatalytic Performance for Antibiotic Removal under Different Light Sources. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3975	2.6	17
44	Photocatalytic treatment of petroleum industry wastewater using recirculating annular reactor: comparison of experimental and modeling. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 19035-19046	5.1	16
43	Integrated process for the removal of indoor VOCs from food industry manufacturing: Elimination of Butane-2,3-dione and Heptan-2-one by cold plasma-photocatalysis combination. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 386, 112071	4.7	16
42	Photocatalytic performance of TiO ₂ impregnated polyester for the degradation of Reactive Green 12: Implications of the surface pretreatment and the microstructure. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 346, 493-501	4.7	15

41	Combining photocatalytic process and biological treatment for Reactive Green 12 degradation: optimization, mineralization, and phytotoxicity with seed germination. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 12490-12499	5.1	14
40	High efficient Cefixime removal from water by the sillenite Bi ₁₂ TiO ₂₀ : Photocatalytic mechanism and degradation pathway. <i>Journal of Cleaner Production</i> , 2022 , 330, 129934	10.3	13
39	Red mud-activated peroxymonosulfate process for the removal of fluoroquinolones in hospital wastewater. <i>Water Research</i> , 2020 , 184, 116171	12.5	12
38	Electro Fenton removal of clopyralid in soil washing effluents. <i>Chemosphere</i> , 2019 , 237, 124447	8.4	10
37	Facile synthesis, structural and optical characterizations of Bi ₁₂ ZnO ₂₀ sillenite crystals: Application for Cefuroxime removal from wastewater. <i>Materials Letters</i> , 2021 , 304, 130658	3.3	10
36	Kinetic Modeling of VOC Photocatalytic Degradation Using a Process at Different Reactor Configurations and Scales. <i>International Journal of Chemical Reactor Engineering</i> , 2016 , 14, 395-405	1.2	9
35	Innovative photocatalytic reactor for the degradation of VOCs and microorganism under simulated indoor air conditions: Cu-Ag/TiO ₂ -based optical fibers at a pilot scale. <i>Chemical Engineering Journal</i> , 2021 , 411, 128622	14.7	9
34	Methods for Synthesis of Hybrid Nanoparticles 2019 , 51-63		8
33	Nano-sized iron oxides supported on polyester textile to remove fluoroquinolones in hospital wastewater. <i>Environmental Science: Nano</i> , 2020 , 7, 2156-2165	7.1	8
32	Acceleration of Trimethylamine Removal Process Under Synergistic Effect of Photocatalytic Oxidation and Surface Discharge Plasma Reactor. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 1239-1246	2.3	8
31	Photocatalytic Treatment of Wastewater Containing Simultaneous Organic and Inorganic Pollution: Competition and Operating Parameters Effects. <i>Catalysts</i> , 2021 , 11, 855	4	8
30	Enhanced removal of antibiotics in hospital wastewater by Fe ₃ O ₄ activated persulfate oxidation. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 2193-2201	4.2	8
29	Modeling and optimization of process parameters in elucidating the adsorption mechanism of Gallic acid on activated carbon prepared from date stones. <i>Separation Science and Technology</i> , 2020 , 55, 3113-3125	2.5	7
28	Thermal and Spectroscopic Properties of High Dense Optical Glasses TeO ₂ Bi ₂ O ₃ WO ₃ (TBW) Doped with Er ₂ O ₃ as Laser Material. <i>Science of Advanced Materials</i> , 2018 , 10, 818-826	2.3	6
27	Review on inactivation of airborne viruses using non-thermal plasma technologies: from MS2 to coronavirus. <i>Environmental Science and Pollution Research</i> , 2021 , 29, 4880	5.1	6
26	Innovative photocatalytic luminous textiles optimized towards water treatment: Performance evaluation of photoreactors. <i>Chemical Engineering Journal</i> , 2021 , 416, 129195	14.7	6
25	A Review of the Use of Semiconductors as Catalysts in the Photocatalytic Inactivation of Microorganisms. <i>Catalysts</i> , 2021 , 11, 1498	4	6
24	Treatment of gaseous effluents by using surface discharge plasma in continuous reactors: Process modelling and simulation. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 206-212	2.3	5

23	Enoxacin degradation by photo-Fenton process combined with a biological treatment: optimization and improvement of by-products biodegradability. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 655-666	3.3	5
22	Recent progress in air treatment with combined photocatalytic/plasma processes: A review. <i>Journal of Environmental Management</i> , 2021 , 299, 113588	7.9	5
21	Continuous air purification by front flow photocatalytic reactor: Modelling of the influence of mass transfer step under simulated real conditions.. <i>Chemosphere</i> , 2022 , 133809	8.4	4
20	Application of BiZnO Sillenite as an Efficient Photocatalyst for Wastewater Treatment: Removal of Both Organic and Inorganic Compounds. <i>Materials</i> , 2021 , 14,	3.5	4
19	Modeling of indoor air treatment using an innovative photocatalytic luminous textile: Reactor compactness and mass transfer enhancement. <i>Chemical Engineering Journal</i> , 2021 , 430, 132636	14.7	4
18	A comprehensive review of biochar in removal of organic pollutants from wastewater: Characterization, toxicity, activation/functionalization and influencing treatment factors. <i>Journal of Water Process Engineering</i> , 2022 , 47, 102801	6.7	4
17	Combined system of natural pomegranate as heterogeneous bioadsorbent and photocatalysis for removal of textile dye herbicide in presence of heavy metals: effect of operating parameters and reaction monitoring67, 339-335		3
16	Innovative sequential combination of fixed bed adsorption/desorption and photocatalysis cost-effective process to remove antibiotics in solution. <i>Progress in Organic Coatings</i> , 2021 , 151, 106014	4.8	3
15	Bismuth Sillenite Crystals as Recent Photocatalysts for Water Treatment and Energy Generation: A Critical Review. <i>Catalysts</i> , 2022 , 12, 500	4	3
14	Techno-economic studies for a pilot-scale Bi ₁₂ TiO ₂₀ based photocatalytic system for pharmaceutical wastewater treatment: From laboratory studies to commercial-scale applications. <i>Journal of Water Process Engineering</i> , 2022 , 48, 102847	6.7	3
13	Synthesis and Characterization of TiO Nanotubes (TiO-NTs) Decorated with Platine Nanoparticles (Pt-NPs): Photocatalytic Performance for Simultaneous Removal of Microorganisms and Volatile Organic Compounds. <i>Materials</i> , 2021 , 14,	3.5	2
12	Optimization of the artificial neuronal network for the degradation and mineralization of amoxicillin photoinduced by the complex ferrioxalate with a gradual and progressive approach of the ligand. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 406, 112982	4.7	2
11	Harmonizing the photocatalytic activity of g-C ₃ N ₄ nanosheets by ZrO ₂ stuffing: From fabrication to experimental study for the wastewater treatment. <i>Biochemical Engineering Journal</i> , 2022 , 182, 108411	4.2	2
10	Reconsideration of the contribution of photogenerated ROS in methyl orange degradation on TiO ₂ , Cu ₂ O, WO ₃ , and Bi ₂ O ₃ under low-intensity simulated solar light: mechanistic understanding of photocatalytic activity. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2021 , 6, 1	1.7	1
9	Disinfection of corona and myriad viruses in water by non-thermal plasma: a review. <i>Environmental Science and Pollution Research</i> ,	5.1	1
8	Spectroscopic properties of Yb ²⁺ in aluminosilicate glass. <i>International Journal of Applied Glass Science</i> , 2017 , 8, 322-328	1.8	0
7	An engineering approach towards the design of an innovative compact photo-reactor for antibiotic removal in the frame of laboratory and pilot-plant scale. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 418, 113445	4.7	0
6	The impact of material design on the photocatalytic removal efficiency and toxicity of two textile dyes.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0

- 5 Titanium-based photocatalytic coatings for bacterial disinfection: The shift from suspended powders to catalytic interfaces. *Surfaces and Interfaces*, **2022**, 102078 4.1 ○
- 4 Photo-plasma catalytic hybrid systems for air treatment: reactor design from laboratory to industrial scales **2020**, 373-389
- 3 Photocatalytic degradation of indole-4-methylphenol mixture in an aqueous solution: optimization and statistical analysis. *Desalination and Water Treatment*, **2015**, 1-12
- 2 Nanocontainer: An introduction **2020**, 3-6
- 1 Integration of nondestructive processes: adsorption/uptake/absorption **2022**, 345-356