

Diketone-Mediated Photochemical Processes for Target Pollutants

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Non-hydroxyl radical mediated photochemical processes for dye degradation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7571-7577.	1.3	38
2	Multifunctional Floating Titania-Coated Macro/Mesoporous Photocatalyst for Efficient Contaminant Removal. <i>ChemPlusChem</i> , 2015, 80, 623-629.	1.3	29
3	Metal doped titanate photo catalysts for the mineralization of congo red under visible irradiation. <i>RSC Advances</i> , 2015, 5, 9792-9805.	1.7	35
4	The photochemistry of carbon nanotubes and its impact on the photo-degradation of dye pollutants in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2015, 439, 98-104.	5.0	18
5	Improved performance and prolonged lifetime of titania-based materials: sequential use as adsorbent and photocatalyst. <i>Science China Chemistry</i> , 2015, 58, 1211-1219.	4.2	6
6	Iron in non-hydroxyl radical mediated photochemical processes for dye degradation: Catalyst or inhibitor?. <i>Chemosphere</i> , 2015, 131, 55-62.	4.2	18
7	Waste management in zinc promoted allylation of aldehyde. <i>New Journal of Chemistry</i> , 2016, 40, 5347-5356.	1.4	2
8	Effects of water chemistry on decolorization in three photochemical processes: Pro and cons of the UV/AA process. <i>Water Research</i> , 2016, 105, 568-574.	5.3	20
9	Fate and implication of acetylacetone in photochemical processes for water treatment. <i>Water Research</i> , 2016, 101, 233-240.	5.3	36
10	Enhanced visible light photocatalytic activities of template free mesoporous nitrogen doped reduced graphene oxide/titania composite catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 36, 184-193.	2.9	56
11	Ligand effects on nitrate reduction by zero-valent iron: Role of surface complexation. <i>Water Research</i> , 2017, 114, 218-227.	5.3	55
12	Applicability of light sources and the inner filter effect in UV/acetylacetone and UV/H ₂ O ₂ processes. <i>Journal of Hazardous Materials</i> , 2017, 335, 100-107.	6.5	21
13	Effects of acetylacetone on the photoconversion of pharmaceuticals in natural and pure waters. <i>Environmental Pollution</i> , 2017, 225, 691-699.	3.7	38
14	Phosphate Changes Effect of Humic Acids on TiO ₂ Photocatalysis: From Inhibition to Mitigation of Electron-Hole Recombination. <i>Environmental Science & Technology</i> , 2017, 51, 514-521.	4.6	102
15	Acetylacetone as an efficient electron shuttle for concerted redox conversion of arsenite and nitrate in the opposite direction. <i>Water Research</i> , 2017, 124, 331-340.	5.3	31
16	Unique Design of Porous Organic Framework Showing Efficiency toward Removal of Toxicants. <i>ACS Omega</i> , 2017, 2, 4100-4107.	1.6	15
17	Selective Electrocatalytic Degradation of Odorous Mercaptans Derived from Au Bond Recognition on a Dendritic Gold/Boron-Doped Diamond Composite Electrode. <i>Environmental Science & Technology</i> , 2017, 51, 8067-8076.	4.6	42
18	Synthesis of nano SnO ₂ -coupled mesoporous molecular sieve titanium phosphate as a recyclable photocatalyst for efficient decomposition of 2,4-dichlorophenol. <i>Nano Research</i> , 2018, 11, 1612-1624.	5.8	37

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19	Feasibility of the UV/AA process as a pretreatment approach for bioremediation of dye-laden wastewater. <i>Chemosphere</i> , 2018, 194, 488-494.	4.2	14
20	Potent removal of cyanobacteria with controlled release of toxic secondary metabolites by a titanium xerogel coagulant. <i>Water Research</i> , 2018, 128, 341-349.	5.3	47
21	Construction of mixed-valence Cu(I)/Cu(II) 3-D framework and its photocatalytic activities. <i>Polyhedron</i> , 2018, 151, 478-482.	1.0	8
22	Simultaneous removal of dissolved organic matter and nitrate from sewage treatment plant effluents using photocatalytic membranes. <i>Water Research</i> , 2018, 143, 250-259.	5.3	26
23	Enhanced Photooxidation of Hydroquinone by Acetylacetone, a Novel Photosensitizer and Electron Shuttle. <i>Environmental Science & Technology</i> , 2019, 53, 11232-11239.	4.6	16
24	To Boldly Look Where No One Has Looked Before: Identifying the Primary Photoproducts of Acetylacetone. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5472-5490.	1.1	22
25	Renewable 4-HIF/NaOH aerogel for efficient methylene blue removal via cation-π interaction induced electrostatic interaction. <i>RSC Advances</i> , 2019, 9, 29772-29778.	1.7	8
26	Enhanced decomplexation of Cu(II)-EDTA: The role of acetylacetone in Cu-mediated photo-Fenton reactions. <i>Chemical Engineering Journal</i> , 2019, 358, 1218-1226.	6.6	48
27	Sludge reduction and cost saving in removal of Cu(II)-EDTA from electroplating wastewater by introducing a low dose of acetylacetone into the Fe(III)/UV/NaOH process. <i>Journal of Hazardous Materials</i> , 2020, 382, 121107.	6.5	22
28	Reduction of chromate with UV/diacetyl for the final effluent to be below the discharge limit. <i>Journal of Hazardous Materials</i> , 2020, 389, 121841.	6.5	15
29	Intraligand charge transfer boosts visible-light-driven generation of singlet oxygen by metal-organic frameworks. <i>Applied Catalysis B: Environmental</i> , 2020, 273, 119087.	10.8	62
30	Key factors in the ligand effects on the photo redox cycling of aqueous iron species. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 281, 1-11.	1.6	18
31	Engineering biodegradable polymeric network for the efficient removal of organoamphiphilic toxicants. <i>Polymers for Advanced Technologies</i> , 2020, 31, 957-966.	1.6	7
32	Performance of UV/acetylacetone process for saline dye wastewater treatment: Kinetics and mechanism. <i>Journal of Hazardous Materials</i> , 2021, 406, 124774.	6.5	17
33	Effects of Low-Molecular-Weight Organics on the Photoreduction of Bromate in Water. <i>ACS ES&T Engineering</i> , 2021, 1, 581-590.	3.7	10
34	Key structural features that determine the selectivity of UV/acetylacetone for the degradation of aromatic pollutants when compared to UV/H ₂ O ₂ . <i>Water Research</i> , 2021, 196, 117046.	5.3	33
35	Accurate Removal of Toxic Organic Pollutants from Complex Water Matrices. <i>Environmental Science & Technology</i> , 2022, 56, 2917-2935.	4.6	44
36	Acetylacetone promoted high-efficiency coagulation toward arsenite through a synchronous photooxidation process. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 1048-1058.	1.2	2

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37	Peroxyl radicals from diketones enhanced the indirect photochemical transformation of carbamazepine: Kinetics, mechanisms, and products. <i>Water Research</i> , 2022, 217, 118424.	5.3	14
38	Diketone-mediated photochemical reduction of selenite to elemental selenium: Role of carbon-centered radicals and complexation. <i>Chemical Engineering Journal</i> , 2022, 445, 136831.	6.6	5
39	Acetylacetone effectively controlled the secondary metabolites of <i>Microcystis aeruginosa</i> under simulated sunlight irradiation. <i>Journal of Environmental Sciences</i> , 2024, 135, 285-295.	3.2	2
40	Substituent effect in self-sensitized degradation of Acid Orange 7 in solar/diketone processes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2023, 439, 114578.	2.0	1
41	Photo-responsive metal-organic frameworks design strategies and emerging applications in photocatalysis and adsorption. <i>Materials Advances</i> , 2023, 4, 1258-1285.	2.6	4
43	Advanced redox processes for sustainable water treatment. , 2023, 1, 666-681.		13