

Juan Matos

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

2,663
citations

27
h-index

51
g-index

62
ext. papers

2,851
ext. citations

8.1
avg. IF

5.18
L-index

#	Paper	IF	Citations
59	Photocatalytic Performance of Carbon-Containing CuMo-Based Catalysts under Sunlight Illumination. <i>Catalysts</i> , 2022 , 12, 46	4	0
58	The Cramer's rule for the parametrization of phenol and its hydroxylated byproducts: UV spectroscopy vs. high performance liquid chromatography. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 6746-6757	5.1	2
57	Upgrading of pine tannin biochars as electrochemical capacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2021 , 601, 863-876	9.3	4
56	Nanostructured KxNa1-xNbO3 hollow spheres as potential materials for the photocatalytic treatment of polluted water. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120502	21.8	3
55	Engaging nanoporous carbons in Beyond adsorption applications: Characterization, challenges and performance. <i>Carbon</i> , 2020 , 164, 69-84	10.4	24
54	Influence of phosphorous upon the formation of DMPO- OH and POBN-O2 spin-trapping adducts in carbon-supported P-promoted Fe-based photocatalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 391, 112362	4.7	6
53	Sustainable production of nanoporous carbons: Kinetics and equilibrium studies in the removal of atrazine. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 252-267	9.3	13
52	Photocatalytic activity of P-Fe/activated carbon nanocomposites under artificial solar irradiation. <i>Catalysis Today</i> , 2020 , 356, 226-240	5.3	11
51	Solar light-driven photocatalytic degradation of phenol on S-doped nanoporous carbons: The role of functional groups in governing activity and selectivity. <i>Carbon</i> , 2020 , 156, 10-23	10.4	27
50	C-doped anatase TiO: Adsorption kinetics and photocatalytic degradation of methylene blue and phenol, and correlations with DFT estimations. <i>Journal of Colloid and Interface Science</i> , 2019 , 547, 14-29	9.3	59
49	Hybrid Material Based on an Amorphous-Carbon Matrix and ZnO/Zn for the Solar Photocatalytic Degradation of Basic Blue 41. <i>Molecules</i> , 2019 , 25,	4.8	10
48	TiO/S-Doped Carbons Hybrids: Analysis of Their Interfacial and Surface Features. <i>Molecules</i> , 2019 , 24,	4.8	7
47	Sunlight photoactivity of rice husks-derived biogenic silica. <i>Catalysis Today</i> , 2019 , 328, 125-135	5.3	12
46	Design of Ag/ and Pt/TiO-SiO nanomaterials for the photocatalytic degradation of phenol under solar irradiation. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 18894-18913	5.1	7
45	Catalytic performance of ordered mesoporous carbons modified with lanthanides in dry methane reforming. <i>Catalysis Today</i> , 2018 , 301, 204-216	5.3	23
44	Nanostructured carbon materials for enhanced nitrobenzene adsorption: Physical vs. chemical surface properties. <i>Carbon</i> , 2018 , 139, 833-844	10.4	31
43	Microwave-assisted synthesis of C-doped TiO2 and ZnO hybrid nanostructured materials as quantum-dots sensitized solar cells. <i>Applied Surface Science</i> , 2018 , 434, 744-755	6.7	29

42	Photochemical reactivity of apical oxygen in K ₂ Nb ₂ O ₇ materials for environmental remediation under UV irradiation. <i>Journal of Colloid and Interface Science</i> , 2017 , 496, 211-221	9.3	10
41	Development of TiO ₂ -C photocatalysts for solar treatment of polluted water. <i>Carbon</i> , 2017 , 122, 361-373	10.4	51
40	High surface area microporous carbons as photoreactors for the catalytic photodegradation of methylene blue under UV-vis irradiation. <i>Applied Catalysis A: General</i> , 2016 , 517, 1-11	5.1	25
39	Eco-Friendly Heterogeneous Photocatalysis on Biochar-Based Materials Under Solar Irradiation. <i>Topics in Catalysis</i> , 2016 , 59, 394-402	2.3	18
38	Nanostructured hybrid TiO ₂ -C for the photocatalytic conversion of phenol. <i>Solar Energy</i> , 2016 , 134, 64-76	6.8	14
37	Direct formic acid fuel cells on Pd catalysts supported on hybrid TiO ₂ -C materials. <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 167-178	21.8	38
36	Influence of activated carbon upon the photocatalytic degradation of methylene blue under UV-vis irradiation. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 784-91	5.1	17
35	Visible light driven photooxidation of phenol on TiO ₂ /Cu-loaded carbon catalysts. <i>Carbon</i> , 2014 , 76, 183-192	10.4	24
34	Zirconium-carbon hybrid sorbent for removal of fluoride from water: oxalic acid mediated Zr(IV) assembly and adsorption mechanism. <i>Environmental Science & Technology</i> , 2014 , 48, 1166-74	10.3	166
33	Influence of anatase and rutile phase in TiO ₂ upon the photocatalytic degradation of methylene blue under solar irradiation in presence of activated carbon. <i>Water Science and Technology</i> , 2014 , 69, 2184-90	2.2	5
32	Performance of activated carbons in consecutive phenol photooxidation cycles. <i>Carbon</i> , 2014 , 73, 206-215	10.4	40
31	Photodegradation of phenol red on a Ni-doped niobate/carbon composite. <i>Ceramics International</i> , 2014 , 40, 9525-9534	5.1	16
30	Functional nanostructured catalysts based on the niobates to the dry methane reforming and ethylene homologation reactions. <i>Fuel</i> , 2013 , 107, 503-510	7.1	11
29	Synergy effect in the photocatalytic degradation of methylene blue on a suspended mixture of TiO ₂ and N-containing carbons. <i>Carbon</i> , 2013 , 54, 460-471	10.4	38
28	Nanocrystalline carbon/TiO ₂ hybrid hollow spheres as possible electrodes for solar cells. <i>Carbon</i> , 2013 , 53, 169-181	10.4	27
27	Photoactivity of S-doped nanoporous activated carbons: A new perspective for harvesting solar energy on carbon-based semiconductors. <i>Applied Catalysis A: General</i> , 2012 , 445-446, 159-165	5.1	80
26	Hydrogen photoproduction under visible irradiation of Au/TiO ₂ /activated carbon. <i>Applied Catalysis A: General</i> , 2012 , 417-418, 263-272	5.1	33
25	Influence of H-Type and L-Type Activated Carbon in the Photodegradation of Methylene Blue and Phenol under UV and Visible Light Irradiated TiO ₂ . <i>Modern Research in Catalysis</i> , 2012 , 01, 1-9	0.6	2

24	Hybrid photoactive materials from municipal sewage sludge for the photocatalytic degradation of methylene blue. <i>Green Chemistry</i> , 2011 , 13, 3431	10	38
23	Synthesis and characterization of activated carbon from sawdust of Algarroba wood. 1. Physical activation and pyrolysis. <i>Journal of Hazardous Materials</i> , 2011 , 196, 360-9	12.8	51
22	Selective phenol hydrogenation in aqueous phase on Pd-based catalysts supported on hybrid TiO ₂ -carbon materials. <i>Applied Catalysis A: General</i> , 2011 , 404, 103-112	5.1	76
21	Ti-containing mesoporous silica for methylene blue photodegradation. <i>Applied Catalysis A: General</i> , 2011 , 393, 359-366	5.1	21
20	Environmental green chemistry applications of nanoporous carbons. <i>Journal of Materials Science</i> , 2010 , 45, 4934-4944	4.3	42
19	Methane conversion on PtRu nanoparticles alloy supported on hydrothermal carbon. <i>Applied Catalysis A: General</i> , 2010 , 386, 140-146	5.1	23
18	Solvothermal carbon-doped TiO ₂ photocatalyst for the enhanced methylene blue degradation under visible light. <i>Applied Catalysis A: General</i> , 2010 , 390, 175-182	5.1	99
17	Influence of activated carbon in TiO ₂ and ZnO mediated photo-assisted degradation of 2-propanol in gas-solid regime. <i>Applied Catalysis B: Environmental</i> , 2010 , 99, 170-180	21.8	58
16	Changes on Texture and Crystalline Phase of Activated Carbon-Supported Ni-Ca Catalyst During Dry Methane Reforming. <i>Open Materials Science Journal</i> , 2010 , 4, 125-132		7
15	Photocatalytic Activity of TiO ₂ on Activated Carbon Under Visible Light in the Photodegradation of Phenol. <i>Open Materials Science Journal</i> , 2010 , 4, 2-4		18
14	Combination of Adsorption on Activated Carbon and Oxidative Photocatalysis on TiO ₂ for Gaseous Toluene Remediation. <i>Open Materials Science Journal</i> , 2010 , 4, 23-25		6
13	Eco-friendly TiO ₂ /AC Photocatalyst for the Selective Photooxidation of 4-Chlorophenol. <i>Catalysis Letters</i> , 2009 , 130, 568-574	2.8	66
12	Influence of Surface Properties of Activated Carbon on Photocatalytic Activity of TiO ₂ in 4-chlorophenol Degradation. <i>The Open Environmental Engineering Journal</i> , 2009 , 2, 21-29		26
11	Activated Carbon Supported Ni-Ca: Influence of Reaction Parameters on Activity and Stability of Catalyst on Methane Reformation. <i>Studies in Surface Science and Catalysis</i> , 2007 , 261-264	1.8	1
10	Activated carbon supported Ni-Ca: Influence of reaction parameters on activity and stability of catalyst on methane reformation. <i>Fuel</i> , 2007 , 86, 1337-1344	7.1	40
9	Influence of L-type activated carbons on photocatalytic activity of TiO ₂ in 4-chlorophenol photodegradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 191, 122-131	4.7	51
8	Influence of activated carbon upon titania on aqueous photocatalytic consecutive runs of phenol photodegradation. <i>Applied Catalysis B: Environmental</i> , 2007 , 70, 461-469	21.8	127
7	Surface nano-aggregation and photocatalytic activity of TiO ₂ on H-type activated carbons. <i>Applied Catalysis B: Environmental</i> , 2007 , 73, 227-235	21.8	75

6	Catalytic effect of KOH on textural changes of carbon macro-networks by physical activation. <i>Journal of Molecular Catalysis A</i> , 2005 , 228, 189-194		22
5	Ethylene conversion on activated carbon-supported NiMo catalysts: effect of the support. <i>Applied Catalysis A: General</i> , 2003 , 241, 25-38	5.1	18
4	Effect of the Type of Activated Carbons on the Photocatalytic Degradation of Aqueous Organic Pollutants by UV-Irradiated Titania. <i>Journal of Catalysis</i> , 2001 , 200, 10-20	7.3	285
3	Solar photocatalytic degradation of 4-chlorophenol using the synergistic effect between titania and activated carbon in aqueous suspension. <i>Catalysis Today</i> , 1999 , 54, 255-265	5.3	161
2	Synergy effect in the photocatalytic degradation of phenol on a suspended mixture of titania and activated carbon. <i>Applied Catalysis B: Environmental</i> , 1998 , 18, 281-291	21.8	434
1	Activated carbon supported NiMo: effects of pretreatment and composition on catalyst reducibility and on ethylene conversion. <i>Applied Catalysis A: General</i> , 1997 , 152, 27-42	5.1	33