

# Juan Matos

## List of Publications by Citations

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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	Synergy effect in the photocatalytic degradation of phenol on a suspended mixture of titania and activated carbon. <i>Applied Catalysis B: Environmental</i> , <b>1998</b> , 18, 281-291	21.8	434
58	Effect of the Type of Activated Carbons on the Photocatalytic Degradation of Aqueous Organic Pollutants by UV-Irradiated Titania. <i>Journal of Catalysis</i> , <b>2001</b> , 200, 10-20	7.3	285
57	Zirconium-carbon hybrid sorbent for removal of fluoride from water: oxalic acid mediated Zr(IV) assembly and adsorption mechanism. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 1166-74	10.3	166
56	Solar photocatalytic degradation of 4-chlorophenol using the synergistic effect between titania and activated carbon in aqueous suspension. <i>Catalysis Today</i> , <b>1999</b> , 54, 255-265	5.3	161
55	Influence of activated carbon upon titania on aqueous photocatalytic consecutive runs of phenol photodegradation. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 70, 461-469	21.8	127
54	Solvothermal carbon-doped TiO <sub>2</sub> photocatalyst for the enhanced methylene blue degradation under visible light. <i>Applied Catalysis A: General</i> , <b>2010</b> , 390, 175-182	5.1	99
53	Photoactivity of S-doped nanoporous activated carbons: A new perspective for harvesting solar energy on carbon-based semiconductors. <i>Applied Catalysis A: General</i> , <b>2012</b> , 445-446, 159-165	5.1	80
52	Selective phenol hydrogenation in aqueous phase on Pd-based catalysts supported on hybrid TiO <sub>2</sub> -carbon materials. <i>Applied Catalysis A: General</i> , <b>2011</b> , 404, 103-112	5.1	76
51	Surface nano-aggregation and photocatalytic activity of TiO <sub>2</sub> on H-type activated carbons. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 73, 227-235	21.8	75
50	Eco-friendly TiO <sub>2</sub> /C Photocatalyst for the Selective Photooxidation of 4-Chlorophenol. <i>Catalysis Letters</i> , <b>2009</b> , 130, 568-574	2.8	66
49	C-doped anatase TiO <sub>2</sub> : Adsorption kinetics and photocatalytic degradation of methylene blue and phenol, and correlations with DFT estimations. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 547, 14-29	9.3	59
48	Influence of activated carbon in TiO <sub>2</sub> and ZnO mediated photo-assisted degradation of 2-propanol in gas/solid regime. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 99, 170-180	21.8	58
47	Development of TiO <sub>2</sub> -C photocatalysts for solar treatment of polluted water. <i>Carbon</i> , <b>2017</b> , 122, 361-373	10.4	51
46	Synthesis and characterization of activated carbon from sawdust of Algarroba wood. 1. Physical activation and pyrolysis. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 196, 360-9	12.8	51
45	Influence of L-type activated carbons on photocatalytic activity of TiO <sub>2</sub> in 4-chlorophenol photodegradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2007</b> , 191, 122-131	4.7	51
44	Environmental green chemistry applications of nanoporous carbons. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4934-4944	4.3	42
43	Performance of activated carbons in consecutive phenol photooxidation cycles. <i>Carbon</i> , <b>2014</b> , 73, 206-215	5.4	40

42	Activated carbon supported NiCo: Influence of reaction parameters on activity and stability of catalyst on methane reformation. <i>Fuel</i> , <b>2007</b> , 86, 1337-1344	7.1	40
41	Direct formic acid fuel cells on Pd catalysts supported on hybrid TiO <sub>2</sub> -C materials. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 163, 167-178	21.8	38
40	Synergy effect in the photocatalytic degradation of methylene blue on a suspended mixture of TiO <sub>2</sub> and N-containing carbons. <i>Carbon</i> , <b>2013</b> , 54, 460-471	10.4	38
39	Hybrid photoactive materials from municipal sewage sludge for the photocatalytic degradation of methylene blue. <i>Green Chemistry</i> , <b>2011</b> , 13, 3431	10	38
38	Hydrogen photoproduction under visible irradiation of Au/TiO <sub>2</sub> /activated carbon. <i>Applied Catalysis A: General</i> , <b>2012</b> , 417-418, 263-272	5.1	33
37	Activated carbon supported Ni <sub>2</sub> Mo: effects of pretreatment and composition on catalyst reducibility and on ethylene conversion. <i>Applied Catalysis A: General</i> , <b>1997</b> , 152, 27-42	5.1	33
36	Nanostructured carbon materials for enhanced nitrobenzene adsorption: Physical vs. chemical surface properties. <i>Carbon</i> , <b>2018</b> , 139, 833-844	10.4	31
35	Microwave-assisted synthesis of C-doped TiO <sub>2</sub> and ZnO hybrid nanostructured materials as quantum-dots sensitized solar cells. <i>Applied Surface Science</i> , <b>2018</b> , 434, 744-755	6.7	29
34	Nanocrystalline carbon/TiO <sub>2</sub> hybrid hollow spheres as possible electrodes for solar cells. <i>Carbon</i> , <b>2013</b> , 53, 169-181	10.4	27
33	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> , <b>2020</b> , 156, 10-23	10.4	27
32	Influence of Surface Properties of Activated Carbon on Photocatalytic Activity of TiO <sub>2</sub> in 4-chlorophenol Degradation. <i>The Open Environmental Engineering Journal</i> , <b>2009</b> , 2, 21-29		26
31	High surface area microporous carbons as photoreactors for the catalytic photodegradation of methylene blue under UV-vis irradiation. <i>Applied Catalysis A: General</i> , <b>2016</b> , 517, 1-11	5.1	25
30	Engaging nanoporous carbons in Beyond adsorption applications: Characterization, challenges and performance. <i>Carbon</i> , <b>2020</b> , 164, 69-84	10.4	24
29	Visible light driven photooxidation of phenol on TiO <sub>2</sub> /Cu-loaded carbon catalysts. <i>Carbon</i> , <b>2014</b> , 76, 183-192	10.4	24
28	Catalytic performance of ordered mesoporous carbons modified with lanthanides in dry methane reforming. <i>Catalysis Today</i> , <b>2018</b> , 301, 204-216	5.3	23
27	Methane conversion on PtRu nanoparticles alloy supported on hydrothermal carbon. <i>Applied Catalysis A: General</i> , <b>2010</b> , 386, 140-146	5.1	23
26	Catalytic effect of KOH on textural changes of carbon macro-networks by physical activation. <i>Journal of Molecular Catalysis A</i> , <b>2005</b> , 228, 189-194		22
25	Ti-containing mesoporous silica for methylene blue photodegradation. <i>Applied Catalysis A: General</i> , <b>2011</b> , 393, 359-366	5.1	21

24	Eco-Friendly Heterogeneous Photocatalysis on Biochar-Based Materials Under Solar Irradiation. <i>Topics in Catalysis</i> , <b>2016</b> , 59, 394-402	2.3	18
23	Ethylene conversion on activated carbon-supported NiMo catalysts: effect of the support. <i>Applied Catalysis A: General</i> , <b>2003</b> , 241, 25-38	5.1	18
22	Photocatalytic Activity of TiO <sub>2</sub> on Activated Carbon Under Visible Light in the Photodegradation of Phenol~!2009-10-20~!2009-10-27~!2010-01-27~!. <i>Open Materials Science Journal</i> , <b>2010</b> , 4, 2-4		18
21	Influence of activated carbon upon the photocatalytic degradation of methylene blue under UV-vis irradiation. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 784-91	5.1	17
20	Photodegradation of phenol red on a Ni-doped niobate/carbon composite. <i>Ceramics International</i> , <b>2014</b> , 40, 9525-9534	5.1	16
19	Nanostructured hybrid TiO <sub>2</sub> -C for the photocatalytic conversion of phenol. <i>Solar Energy</i> , <b>2016</b> , 134, 64-76.8		14
18	Sustainable production of nanoporous carbons: Kinetics and equilibrium studies in the removal of atrazine. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 562, 252-267	9.3	13
17	Sunlight photoactivity of rice husks-derived biogenic silica. <i>Catalysis Today</i> , <b>2019</b> , 328, 125-135	5.3	12
16	Functional nanostructured catalysts based on the niobates to the dry methane reforming and ethylene homologation reactions. <i>Fuel</i> , <b>2013</b> , 107, 503-510	7.1	11
15	Photocatalytic activity of P-Fe/activated carbon nanocomposites under artificial solar irradiation. <i>Catalysis Today</i> , <b>2020</b> , 356, 226-240	5.3	11
14	Photochemical reactivity of apical oxygen in K <sub>2</sub> Sr(2)Nb(5)O(15) materials for environmental remediation under UV irradiation. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 496, 211-221	9.3	10
13	Hybrid Material Based on an Amorphous-Carbon Matrix and ZnO/Zn for the Solar Photocatalytic Degradation of Basic Blue 41. <i>Molecules</i> , <b>2019</b> , 25,	4.8	10
12	Design of Ag/ and Pt/TiO-SiO nanomaterials for the photocatalytic degradation of phenol under solar irradiation. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 18894-18913	5.1	7
11	TiO/S-Doped Carbons Hybrids: Analysis of Their Interfacial and Surface Features. <i>Molecules</i> , <b>2019</b> , 24,	4.8	7
10	Changes on Texture and Crystalline Phase of Activated Carbon-Supported Ni-Ca Catalyst During Dry Methane Reforming. <i>Open Materials Science Journal</i> , <b>2010</b> , 4, 125-132		7
9	Combination of Adsorption on Activated Carbon and Oxidative Photocatalysis on TiO <sub>2</sub> for Gaseous Toluene Remediation~!2009-10-17~!2009-10-23~!2010-01-27~!. <i>Open Materials Science Journal</i> , <b>2010</b> , 4, 23-25		6
8	Influence of phosphorous upon the formation of DMPO- OH and POBN-O <sub>2</sub> spin-trapping adducts in carbon-supported P-promoted Fe-based photocatalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 391, 112362	4.7	6
7	Influence of anatase and rutile phase in TiO <sub>2</sub> upon the photocatalytic degradation of methylene blue under solar irradiation in presence of activated carbon. <i>Water Science and Technology</i> , <b>2014</b> , 69, 2184-90	2.2	5

6	Upgrading of pine tannin biochars as electrochemical capacitor electrodes. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 601, 863-876	9.3	4
5	Nanostructured $K_xNa_{1-x}NbO_3$ hollow spheres as potential materials for the photocatalytic treatment of polluted water. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120502	21.8	3
4	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> , <b>2012</b> , 01, 1-9	0.6	2
3	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> , <b>2021</b> , 28, 6746-6757	5.1	2
2	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> , <b>2007</b> , 261-264	1.8	1
1	Photocatalytic Performance of Carbon-Containing CuMo-Based Catalysts under Sunlight Illumination. <i>Catalysts</i> , <b>2022</b> , 12, 46	4	0