Juan Matos

List of Publications by Year
in descending order

62 papers	3,125 citations	172386 29 h-index	149623 56 g-index
62 all docs	62 docs citations	62 times ranked	3202 citing authors

#	Article	IF	Citations
1	Synergy effect in the photocatalytic degradation of phenol on a suspended mixture of titania and activated carbon. Applied Catalysis B: Environmental, 1998, 18, 281-291.	10.8	468
2	Effect of the Type of Activated Carbons on the Photocatalytic Degradation of Aqueous Organic Pollutants by UV-Irradiated Titania. Journal of Catalysis, 2001, 200, 10-20.	3.1	309
3	Zirconiumâ€“Carbon Hybrid Sorbent for Removal of Fluoride from Water: Oxalic Acid Mediated Zr(IV) Assembly and Adsorption Mechanism. Environmental Science & Technology, 2014, 48, 1166-1174.	4.6	186
4	Solar photocatalytic degradation of 4-chlorophenol using the synergistic effect between titania and activated carbon in aqueous suspension. Catalysis Today, 1999, 54, 255-265.	2.2	177
5	Influence of activated carbon upon titania on aqueous photocatalytic consecutive runs of phenol photodegradation. Applied Catalysis B: Environmental, 2007, 70, 461-469.	10.8	141
6	Solvothermal carbon-doped TiO2 photocatalyst for the enhanced methylene blue degradation under visible light. Applied Catalysis A: General, 2010, 390, 175-182.	2.2	108
7	C-doped anatase TiO2: Adsorption kinetics and photocatalytic degradation of methylene blue and phenol, and correlations with DFT estimations. Journal of Colloid and Interface Science, 2019, 547, 14-29.	5.0	87
8	Photoactivity of S-doped nanoporous activated carbons: A new perspective for harvesting solar energy on carbon-based semiconductors. Applied Catalysis A: General, 2012, 445-446, 159-165.	2.2	85
9	Surface nano-aggregation and photocatalytic activity of TiO2 on H-type activated carbons. Applied Catalysis B: Environmental, 2007, 73, 227-235.	10.8	84
10	Selective phenol hydrogenation in aqueous phase on Pd-based catalysts supported on hybrid TiO2-carbon materials. Applied Catalysis A: General, 2011, 404, 103-112.	2.2	83
11	Eco-friendly TiO2â€“AC Photocatalyst for the Selective Photooxidation of 4-Chlorophenol. Catalysis Letters, 2009, 130, 568-574.	1.4	71
12	Development of TiO2-C photocatalysts for solar treatment of polluted water. Carbon, 2017, 122, 361-373.	5.4	68
13	Influence of activated carbon in TiO2 and ZnO mediated photo-assisted degradation of 2-propanol in gasâ€“solid regime. Applied Catalysis B: Environmental, 2010, 99, 170-180.	10.8	66
14	Synthesis and characterization of activated carbon from sawdust of Algarroba wood. 1. Physical activation and pyrolysis. Journal of Hazardous Materials, 2011, 196, 360-369.	6.5	61
15	Influence of L-type activated carbons on photocatalytic activity of TiO2 in 4-chlorophenol photodegradation. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 191, 122-131.	2.0	58
16	Nanostructured carbon materials for enhanced nitrobenzene adsorption: Physical vs. chemical surface properties. Carbon, 2018, 139, 833-844.	5.4	55
17	Synergy effect in the photocatalytic degradation of methylene blue on a suspended mixture of TiO2 and N-containing carbons. Carbon, 2013, 54, 460-471.	5.4	48
18	Environmental green chemistry applications of nanoporous carbons. Journal of Materials Science, 2010, 45, 4934-4944.	1.7	47

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19	Solar light-driven photocatalytic degradation of phenol on S-doped nanoporous carbons: The role of functional groups in governing activity and selectivity. Carbon, 2020, 156, 10-23.	5.4	46
20	Activated carbon supported Niâ€“Ca: Influence of reaction parameters on activity and stability of catalyst on methane reformation. Fuel, 2007, 86, 1337-1344.	3.4	45
21	Performance of activated carbons in consecutive phenol photooxidation cycles. Carbon, 2014, 73, 206-215.	5.4	45
22	Direct formic acid fuel cells on Pd catalysts supported on hybrid TiO2-C materials. Applied Catalysis B: Environmental, 2015, 163, 167-178.	10.8	43
23	Hybrid photoactive materials from municipal sewage sludge for the photocatalytic degradation of methylene blue. Green Chemistry, 2011, 13, 3431.	4.6	42
24	Engaging nanoporous carbons in â€œbeyond adsorptionâ€•applications: Characterization, challenges and performance. Carbon, 2020, 164, 69-84.	5.4	41
25	Microwave-assisted synthesis of C-doped TiO2 and ZnO hybrid nanostructured materials as quantum-dots sensitized solar cells. Applied Surface Science, 2018, 434, 744-755.	3.1	39
26	Activated carbon supported Niî—¸Mo: effects of pretreatment and composition on catalyst reducibility and on ethylene conversion. Applied Catalysis A: General, 1997, 152, 27-42.	2.2	38
27	Hydrogen photoproduction under visible irradiation of Auâ€“TiO2/activated carbon. Applied Catalysis A: General, 2012, 417-418, 263-272.	2.2	35
28	Nanocrystalline carbonâ€“TiO2 hybrid hollow spheres as possible electrodes for solar cells. Carbon, 2013, 53, 169-181.	5.4	32
29	High surface area microporous carbons as photoreactors for the catalytic photodegradation of methylene blue under UVâ€“vis irradiation. Applied Catalysis A: General, 2016, 517, 1-11.	2.2	30
30	Catalytic effect of KOH on textural changes of carbon macro-networks by physical activation. Journal of Molecular Catalysis A, 2005, 228, 189-194.	4.8	28
31	Catalytic performance of ordered mesoporous carbons modified with lanthanides in dry methane reforming. Catalysis Today, 2018, 301, 204-216.	2.2	28
32	Visible light driven photooxidation of phenol on TiO2/Cu-loaded carbon catalysts. Carbon, 2014, 76, 183-192.	5.4	27
33	Influence of Surface Properties of Activated Carbon on Photocatalytic Activity of TiO2 in 4-chlorophenol Degradation. The Open Environmental Engineering Journal, 2009, 2, 21-29.	1.2	27
34	Methane conversion on Ptâ€“Ru nanoparticles alloy supported on hydrothermal carbon. Applied Catalysis A: General, 2010, 386, 140-146.	2.2	25
35	Eco-Friendly Heterogeneous Photocatalysis on Biochar-Based Materials Under Solar Irradiation. Topics in Catalysis, 2016, 59, 394-402.	1.3	24
36	Ethylene conversion on activated carbon-supported NiMo catalysts: effect of the support. Applied Catalysis A: General, 2003, 241, 25-38.	2.2	22

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37	Ti-containing mesoporous silica for methylene blue photodegradation. Applied Catalysis A: General, 2011, 393, 359-366.	2.2	22
38	Sunlight photoactivity of rice husks-derived biogenic silica. Catalysis Today, 2019, 328, 125-135.	2.2	21
39	Upgrading of pine tannin biochars as electrochemical capacitor electrodes. Journal of Colloid and Interface Science, 2021, 601, 863-876.	5.0	21
40	Photodegradation of phenol red on a Ni-doped niobate/carbon composite. Ceramics International, 2014, 40, 9525-9534.	2.3	20
41	Sustainable production of nanoporous carbons: Kinetics and equilibrium studies in the removal of atrazine. Journal of Colloid and Interface Science, 2020, 562, 252-267.	5.0	20
42	Photocatalytic Activity of TiO2 on Activated Carbon Under Visible Light in the Photodegradation of Phenol~!2009-10-20~!2009-10-27~!2010-01-27~!. Open Materials Science Journal, 2010, 4, 2-4.	0.2	19
43	Influence of activated carbon upon the photocatalytic degradation of methylene blue under UVâ€“vis irradiation. Environmental Science and Pollution Research, 2015, 22, 784-791.	2.7	18
44	Nanostructured hybrid TiO2-C for the photocatalytic conversion of phenol. Solar Energy, 2016, 134, 64-71.	2.9	17
45	Photochemical reactivity of apical oxygen in KSr2Nb5O15 materials for environmental remediation under UV irradiation. Journal of Colloid and Interface Science, 2017, 496, 211-221.	5.0	17
46	Nanostructured KxNa1-xNbO3 hollow spheres as potential materials for the photocatalytic treatment of polluted water. Applied Catalysis B: Environmental, 2021, 298, 120502.	10.8	16
47	Photocatalytic activity of P-Fe/activated carbon nanocomposites under artificial solar irradiation. Catalysis Today, 2020, 356, 226-240.	2.2	15
48	Hybrid Material Based on an Amorphous-Carbon Matrix and ZnO/Zn for the Solar Photocatalytic Degradation of Basic Blue 41. Molecules, 2020, 25, 96.	1.7	13
49	Functional nanostructured catalysts based on the niobates to the dry methane reforming and ethylene homologation reactions. Fuel, 2013, 107, 503-510.	3.4	11
50	Design of Ag/ and Pt/TiO2-SiO2 nanomaterials for the photocatalytic degradation of phenol under solar irradiation. Environmental Science and Pollution Research, 2018, 25, 18894-18913.	2.7	10
51	Influence of phosphorous upon the formation of DMPO- OH and POBN-O2Â¯ spin-trapping adducts in carbon-supported P-promoted Fe-based photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 391, 112362.	2.0	10
52	Influence of anatase and rutile phase in TiO2 upon the photocatalytic degradation of methylene blue under solar irradiation in presence of activated carbon. Water Science and Technology, 2014, 69, 2184-2190.	1.2	8
53	TiO2/S-Doped Carbons Hybrids: Analysis of Their Interfacial and Surface Features. Molecules, 2019, 24, 3585.	1.7	8
54	Photocatalytic Performance of Carbon-Containing CuMo-Based Catalysts under Sunlight Illumination. Catalysts, 2022, 12, 46.	1.6	8

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55	The Cramerâ€™s rule for the parametrization of phenol and its hydroxylated byproducts: UV spectroscopy vs. high performance liquid chromatography. Environmental Science and Pollution Research, 2021, 28, 6746-6757.	2.7	7
56	Changes on Texture and Crystalline Phase of Activated Carbon-Supported Ni-Ca Catalyst During Dry Methane Reforming. Open Materials Science Journal, 2010, 4, 125-132.	0.2	7
57	Performance of a C-containing Cu-based photocatalyst for the degradation of tartrazine: Comparison of performance in a slurry and CPC photoreactor under artificial and natural solar light. Journal of Colloid and Interface Science, 2022, 623, 646-659.	5.0	7
58	Combination of Adsorption on Activated Carbon and Oxidative Photocatalysis on TiO2 for Gaseous Toluene Remediation~!2009-10-17~!2009-10-23~!2010-01-27~!. Open Materials Science Journal, 2010, 4, 23-25.	0.2	6
59	Influence of H-Type and L-Type Activated Carbon in the Photodegradation of Methylene Blue and Phenol under UV and Visible Light Irradiated TiO₂. Modern Research in Catalysis, 2012, 01, 1-9.	1.2	2
60	Texture Properties and Kinetic Parameters Associated to Carbon Materials Obtained from Sawdust of Algarroba Wood. 1. Application in Phenol Photodetoxification. The Open Environmental Engineering Journal, 2011, 4, 1-10.	1.2	2
61	Activated Carbon Supported Ni-Ca: Influence of Reaction Parameters on Activity and Stability of Catalyst on Methane Reformation. Studies in Surface Science and Catalysis, 2007, , 261-264.	1.5	1
62	(Invited) Biomass-Derivative Molecules for the Sustainable Synthesis of Carbon-Doped High-Performance Nanostructured Materials. ECS Meeting Abstracts, 2019, , .	0.0	0