Gabor G Kovacs

List of Publications by Year
in descending order

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31 papers	584 citations	567281 15 h-index	610901 24 g-index
31 all docs	31 docs citations	31 times ranked	760 citing authors

#	Article	IF	Citations
1	The photocatalytic activity of TiO2/WO3/noble metal (Au or Pt) nanoarchitectures obtained by selective photodeposition. Catalysis Today, 2013, 208, 19-27.	4.4	81
2	Photocatalytic hydrogen production using TiO2â€“Pt aerogels. Chemical Engineering Journal, 2014, 242, 96-101.	12.7	66
3	TiO2/WO3/Au nanoarchitecturesâ€™ photocatalytic activity, â€œfrom degradation intermediates to catalystsâ€™ structural peculiaritiesâ€, Part I: Aeroxide P25 based composites. Applied Catalysis B: Environmental, 2014, 147, 508-517.	20.2	37
4	Preparation of TiO2/WO3 composite photocatalysts by the adjustment of the semiconductors' surface charge. Materials Science in Semiconductor Processing, 2016, 42, 66-71.	4.0	34
5	Synthesis of Shape-Tailored WO3 Micro-/Nanocrystals and the Photocatalytic Activity of WO3/TiO2 Composites. Materials, 2016, 9, 258.	2.9	28
6	Hydrothermal crystallization of bismuth oxybromide (BiOBr) in the presence of different shape controlling agents. Applied Surface Science, 2020, 518, 146184.	6.1	27
7	TiO2/WO3/Au nanoarchitecturesâ€™ photocatalytic activity â€œfrom degradation intermediates to catalystsâ€™ structural peculiaritiesâ€•Part II: Aerogel based composites â€“ fine details by spectroscopic means. Applied Catalysis B: Environmental, 2014, 148-149, 589-600.	20.2	26
8	Polyhedral Pt vs. spherical Pt nanoparticles on commercial titanias: Is shape tailoring a guarantee of achieving high activity?. Journal of Catalysis, 2015, 325, 156-167.	6.2	24
9	Performance Comparison of Eichhornia crassipes and Salvinia natans on Azo-Dye (Eriochrome Black T) Phytoremediation. Crystals, 2020, 10, 565.	2.2	23
10	Shape-controlled agglomeration of TiO 2 nanoparticles. New insights on polycrystallinity vs. single crystals in photocatalysis. Ceramics International, 2016, 42, 3077-3087.	4.8	22
11	Novel synthesis approaches for WO3â€TiO2/MWCNT composite photocatalysts- problematic issues of photoactivity enhancement factors. Catalysis Today, 2018, 300, 28-38.	4.4	22
12	Photocatalytic, Morphological and Structural Properties of the TiO2-SiO2-Ag Porous Structures Based System. Materials, 2015, 8, 1059-1073.	2.9	20
13	Peroxo group enhanced nanorutile as visible light active photocatalyst. Catalysis Today, 2017, 284, 129-136.	4.4	18
14	Advantages of TiO2/carbon nanotube modified photocatalytic membranes in the purification of oil-in-water emulsions. Water Science and Technology: Water Supply, 2019, 19, 1167-1174.	2.1	18
15	Mapping the Photocatalytic Activity and Ecotoxicology of Au, Pt/TiO₂ Composite Photocatalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 12993-13006.	6.7	16
16	Graphite electrodes modified with Neurospora crassa cellobiose dehydrogenase: Comparative electrochemical characterization under direct and mediated electron transfer. Bioelectrochemistry, 2012, 88, 84-91.	4.6	15
17	The investigation of the photocatalytic efficiency of spherical gold nanocages/TiO 2 and silver nanospheres/TiO 2 composites. Separation and Purification Technology, 2017, 183, 216-225.	7.9	15
18	Preparation and characterization of noble metal modified titanium dioxide hollow spheres â€“ new insights concerning the light trapping efficiency. Applied Surface Science, 2020, 534, 147327.	6.1	14

#	Article	IF	Citations
19	Shape tailored Pd nanoparticlesâ€™ effect on the photocatalytic activity of commercial TiO 2. Catalysis Today, 2017, 284, 137-145.	4.4	13
20	Differently Shaped Au Nanoparticles: A Case Study on the Enhancement of the Photocatalytic Activity of Commercial TiO2. Materials, 2015, 8, 162-180.	2.9	12
21	Laser oxidative pyrolysis synthesis and annealing of TiO2 nanoparticles embedded in carbonâ€“silica shells/matrix. Applied Surface Science, 2015, 336, 226-233.	6.1	11
22	â€œCrystallographicâ€•holes: new insights for a beneficial structural feature for photocatalytic applications. Nanoscale, 2015, 7, 5776-5786.	5.6	11
23	Effectiveness and Characterization of Novel Mineral Clay in Cd2+ Adsorption Process: Linear and Non-Linear Isotherm Regression Analysis. Water (Switzerland), 2022, 14, 279.	2.7	11
24	Detailed Investigation of Phenol Degradation on Au/TiO₂ Composite Materials. Journal of Nanoscience and Nanotechnology, 2019, 19, 407-413.	0.9	5
25	Controlled formation of Ag-AgxO nanoparticles on the surface of commercial TiO2 based composites for enhanced photocatalytic degradation of oxalic acid and phenol. Catalysis Today, 2020, , .	4.4	5
26	Shape tailoring of AgBr microstructures: effect of the cations of different bromide sources and applied surfactants. RSC Advances, 2021, 11, 9709-9720.	3.6	3
27	The Effect of the Reducing Sugars in the Synthesis of Visible-Light-Active Copper(I) Oxide Photocatalyst. Molecules, 2021, 26, 1149.	3.8	2
28	Solvothermal Crystallization of Ag/AgxO-AgCl Composites: Effect of Different Chloride Sources/Shape-Tailoring Agents. Catalysts, 2021, 11, 379.	3.5	2
29	Bioactive Properties of Composites Based on Silicate Glasses and Different Silver and Gold Structures. Materials, 2022, 15, 1655.	2.9	2
30	Shape-Tailored TiO₂ Photocatalysts Obtained in the Presence of Different Types of Carbon Materials. Journal of Nanoscience and Nanotechnology, 2021, 21, 2360-2367.	0.9	1
31	Different Pathways for Synthesis of WO3 and Vertically Aligned Carbon Nanotube-Based Nanostructures. Journal of Nanoscience and Nanotechnology, 2021, 21, 2388-2393.	0.9	0