

Fotios Katsaros

List of Publications by Year in descending order

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46
papers

2,714
citations

279798

23
h-index

233421

45
g-index

46
all docs

46
docs citations

46
times ranked

3899
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal–carboxylate interactions in metal–alginate complexes studied with FTIR spectroscopy. Carbohydrate Research, 2010, 345, 469-473.	2.3	626
2	Heavy metal sorption by calcium alginate beads from Laminaria digitata. Journal of Hazardous Materials, 2006, 137, 1765-1772.	12.4	310
3	Prediction of binary adsorption isotherms of Cu ²⁺ , Cd ²⁺ and Pb ²⁺ on calcium alginate beads from single adsorption data. Journal of Hazardous Materials, 2009, 162, 1347-1354.	12.4	165
4	Calcium alginate beads from Laminaria digitata for the removal of Cu ²⁺ and Cd ²⁺ from dilute aqueous metal solutions. Desalination, 2008, 224, 293-306.	8.2	125
5	Alginate fibers as photocatalyst immobilizing agents applied in hybrid photocatalytic/ultrafiltration water treatment processes. Water Research, 2012, 46, 1858-1872.	11.3	119
6	A review of the latest development of polyimide based membranes for CO ₂ separations. Reactive and Functional Polymers, 2017, 120, 104-130.	4.1	116
7	Very efficient composite titania membranes in hybrid ultrafiltration/photocatalysis water treatment processes. Journal of Membrane Science, 2012, 392-393, 192-203.	8.2	105
8	Double-side active TiO ₂ -modified nanofiltration membranes in continuous flow photocatalytic reactors for effective water purification. Journal of Hazardous Materials, 2012, 211-212, 304-316.	12.4	100
9	Experimental investigation of asphaltene deposition mechanism during oil flow in core samples. Journal of Petroleum Science and Engineering, 2007, 57, 281-293.	4.2	88
10	Magnetically separable TiO ₂ /CoFe ₂ O ₄ /Ag nanocomposites for the photocatalytic reduction of hexavalent chromium pollutant under UV and artificial solar light. Chemical Engineering Journal, 2020, 381, 122730.	12.7	88
11	Pore structure, interface properties and photocatalytic efficiency of hydration/dehydration derived TiO ₂ /CNT composites. Applied Catalysis B: Environmental, 2014, 147, 65-81.	20.2	80
12	High pressure gas permeability of microporous carbon membranes. Microporous Materials, 1997, 8, 171-176.	1.6	77
13	Visible light active TiO ₂ photocatalytic filtration membranes with improved permeability and low energy consumption. Catalysis Today, 2014, 224, 56-69.	4.4	74
14	Photocatalysis as an advanced reduction process (ARP): The reduction of 4-nitrophenol using titania nanotubes-ferrite nanocomposites. Journal of Hazardous Materials, 2019, 372, 37-44.	12.4	66
15	CO ₂ Capture by Novel Supported Ionic Liquid Phase Systems Consisting of Silica Nanoparticles Encapsulating Amine-Functionalized Ionic Liquids. Journal of Physical Chemistry C, 2014, 118, 24437-24451.	3.1	62
16	Effect of copper and copper alginate treatment on wool fabric. Study of textile and antibacterial properties. Surface and Coatings Technology, 2013, 235, 24-31.	4.8	54
17	Dye Sensitization of Titania Compact Layer for Efficient and Stable Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 6161-6171.	5.1	41
18	Preparation and characterization of novel poly-(vinyl alcohol)–Zostera flakes composites for packaging applications. Composites Part B: Engineering, 2007, 38, 398-404.	12.0	35

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19	Preparation and characterisation of gas selective microporous carbon membranes. Microporous and Mesoporous Materials, 2007, 99, 181-189.	4.4	34
20	A methodology for the morphological and physicochemical characterisation of asymmetric carbon hollow fiber membranes. Journal of Membrane Science, 2011, 375, 113-123.	8.2	33
21	Intercalation Study of Low Molecular Weight Hyperbranched Polyethyleneimine into Graphite Oxide. Chemistry - A European Journal, 2014, 20, 8129-8137.	3.3	29
22	Comparative study of the rate and locality of silica deposition during the CVD treatment of porous membranes with TEOS and TMOS. Microporous and Mesoporous Materials, 2009, 120, 177-185.	4.4	28
23	A silanol-functionalized polyoxometalate with excellent electron transfer mediating behavior to ZnO and TiO ₂ cathode interlayers for highly efficient and extremely stable polymer solar cells. Journal of Materials Chemistry C, 2018, 6, 1459-1469.	5.5	25
24	Fabrication of Antibacterial Poly(Vinyl Alcohol) Nanocomposite Films Containing Dendritic Polymer Functionalized Multi-Walled Carbon Nanotubes. Frontiers in Materials, 2018, 5, .	2.4	25
25	Development of hybrid alginate/ceramic membranes for Cd ²⁺ removal. Microporous and Mesoporous Materials, 2009, 120, 154-164.	4.4	24
26	Facile synthesis of carbon supported copper nanoparticles from alginate precursor with controlled metal content and catalytic NO reduction properties. Journal of Hazardous Materials, 2011, 189, 384-390.	12.4	19
27	Neutron diffraction study of adsorbed CO ₂ on a carbon membrane. Physica B: Condensed Matter, 2000, 276-278, 901-902.	2.7	17
28	Gas permeance properties of asymmetric carbon hollow fiber membranes at high feed pressures. Journal of Natural Gas Science and Engineering, 2016, 31, 842-851.	4.4	17
29	Hyperbranched polyethyleneimine towards the development of homogeneous and highly porous CuO-CeO ₂ -SiO ₂ catalytic materials. Chemical Engineering Journal, 2016, 300, 343-357.	12.7	14
30	High-quality graphene sheets decorated with ZIF-8 nanocrystals. Microporous and Mesoporous Materials, 2018, 262, 68-76.	4.4	12
31	Viscose Fabric Functionalized with Copper and Copper Alginate Treatment Toward Antibacterial and UV Blocking Properties. Fibers and Polymers, 2020, 21, 1238-1250.	2.1	12
32	Mesoporous CuO/TiO ₂ catalysts prepared by the ammonia driven deposition precipitation method for CO preferential oxidation: Effect of metal loading. Fuel, 2022, 311, 122491.	6.4	12
33	Metal loaded nanoporous silicas with tailor-made properties through hyperbranched polymer assisted templating approaches. Microporous and Mesoporous Materials, 2016, 235, 107-119.	4.4	11
34	An in situ antimicrobial susceptibility testing method based on in vivo measurements of chlorophyll $\hat{\pm}$ fluorescence. Journal of Microbiological Methods, 2015, 112, 49-54.	1.6	9
35	A hyperbranched polymer synthetic strategy for the efficient fixation of metal species within nanoporous structures: Application in automotive catalysis. Chemical Engineering Journal, 2021, 421, 129496.	12.7	9
36	The combination of equilibrium and dynamic methods for the detailed structural characterisation of ceramic membranes. Journal of the European Ceramic Society, 1998, 18, 1545-1558.	5.7	8

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37	Modified in situ antimicrobial susceptibility testing method based on cyanobacteria chlorophyll a fluorescence. <i>Journal of Microbiological Methods</i> , 2016, 121, 1-4.	1.6	8
38	A Green Route to Copper Loaded Silica Nanoparticles Using Hyperbranched Poly(Ethylene Imine) as a Biomimetic Template: Application in Heterogeneous Catalysis. <i>Catalysts</i> , 2017, 7, 390.	3.5	8
39	Multi-Walled Carbon Nanotubes Decorated with Guanidinylated Dendritic Molecular Transporters: An Efficient Platform for the Selective Anticancer Activity of Doxorubicin. <i>Pharmaceutics</i> , 2021, 13, 858.	4.5	8
40	Synthesis, characterization and assessment of hydrophilic oxidized carbon nanodiscs in bio-related applications. <i>RSC Advances</i> , 2018, 8, 122-131.	3.6	5
41	Engineering Commercial TiO ₂ Powder into Tailored Beads for Efficient Water Purification. <i>Materials</i> , 2022, 15, 326.	2.9	5
42	Cytotoxicity Effects of Water-Soluble Multi-Walled Carbon Nanotubes Decorated with Quaternized Hyperbranched Poly(ethyleneimine) Derivatives on Autotrophic and Heterotrophic Gram-Negative Bacteria. <i>Pharmaceutics</i> , 2020, 13, 293.	3.8	4
43	Total neutron scattering study of supercooled CO ₂ confined in an ordered mesoporous carbon. <i>Carbon</i> , 2020, 167, 296-306.	10.3	3
44	Structuring efficient photocatalysts into bespoke fiber shaped systems for applied water treatment. <i>Chemosphere</i> , 2021, 277, 130253.	8.2	3
45	Towards Highly Loaded and Finely Dispersed CuO Catalysts via ADP: Effect of the Alumina Support. <i>Catalysts</i> , 2022, 12, 628.	3.5	1
46	Effect Of Activation Process On Resin Based Activated Carbons. <i>Studies in Surface Science and Catalysis</i> , 2007, 160, 599-606.	1.5	0