

# George E Romanos

## List of Publications by Year in descending order

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55  
papers

2,532  
citations

201385

27  
h-index

189595

50  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3918  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-carboxylate interactions in metal-alginate complexes studied with FTIR spectroscopy. Carbohydrate Research, 2010, 345, 469-473.	1.1	626
2	CO <sub>2</sub> adsorption behavior of amine-functionalized ZIF-8, graphene oxide, and ZIF-8/graphene oxide composites under dry and wet conditions. Microporous and Mesoporous Materials, 2018, 267, 53-67.	2.2	144
3	Ceramic photocatalytic membranes for water filtration under UV and visible light. Applied Catalysis B: Environmental, 2015, 178, 12-19.	10.8	132
4	Controlled surface functionalization of multiwall carbon nanotubes by HNO <sub>3</sub> hydrothermal oxidation. Carbon, 2014, 69, 311-326.	5.4	95
5	Experimental investigation of asphaltene deposition mechanism during oil flow in core samples. Journal of Petroleum Science and Engineering, 2007, 57, 281-293.	2.1	88
6	Pore structure, interface properties and photocatalytic efficiency of hydration/dehydration derived TiO <sub>2</sub> /CNT composites. Applied Catalysis B: Environmental, 2014, 147, 65-81.	10.8	80
7	Solubility and Diffusivity of CO <sub>2</sub> in the Ionic Liquid 1-Butyl-3-methylimidazolium Tricyanomethanide within a Large Pressure Range (0.01 MPa to 10 MPa). Journal of Chemical & Engineering Data, 2015, 60, 1544-1562.	1.0	71
8	Enhanced CO <sub>2</sub> Capture in Binary Mixtures of 1-Alkyl-3-methylimidazolium Tricyanomethanide Ionic Liquids with Water. Journal of Physical Chemistry B, 2013, 117, 12234-12251.	1.2	64
9	Cu- and Zr-based metal organic frameworks and their composites with graphene oxide for capture of acid gases at ambient temperature. Journal of Solid State Chemistry, 2018, 266, 233-243.	1.4	64
10	Zeolite Imidazolate Framework-Ionic Liquid Hybrid Membranes for Highly Selective CO <sub>2</sub> Separation. Journal of Physical Chemistry C, 2013, 117, 18434-18440.	1.5	62
11	CO <sub>2</sub> 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.	1.5	62
12	Grafting of Imidazolium Based Ionic Liquid on the Pore Surface of Nanoporous Materials-Study of Physicochemical and Thermodynamic Properties. Journal of Physical Chemistry B, 2010, 114, 6480-6491.	1.2	59
13	Controlling and Quantifying Oxygen Functionalities on Hydrothermally and Thermally Treated Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 8534-8546.	1.5	55
14	Titania photonic crystal photocatalysts functionalized by graphene oxide nanocolloids. Applied Catalysis B: Environmental, 2019, 240, 277-290.	10.8	43
15	Non-activated high surface area expanded graphite oxide for supercapacitors. Applied Surface Science, 2015, 358, 110-121.	3.1	42
16	Development and characterization of chemically stabilized ionic liquid membranes-Part I: Nanoporous ceramic supports. Journal of Membrane Science, 2010, 365, 366-377.	4.1	41
17	Corrosion behaviour of mild steel in 1-alkyl-3-methylimidazolium tricyanomethanide ionic liquids for CO <sub>2</sub> capture applications. RSC Advances, 2014, 4, 5300.	1.7	40
18	Ionic Liquid-Modified Porous Materials for Gas Separation and Heterogeneous Catalysis. Journal of Physical Chemistry C, 2012, 116, 16398-16411.	1.5	35

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19	Preparation and characterisation of gas selective microporous carbon membranes. <i>Microporous and Mesoporous Materials</i> , 2007, 99, 181-189.	2.2	34
20	CO <sub>2</sub> Capture Efficiency, Corrosion Properties, and Ecotoxicity Evaluation of Amine Solutions Involving Newly Synthesized Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 12083-12102.	1.8	34
21	CO <sub>2</sub> Captured in Zeolitic Imidazolate Frameworks: Raman Spectroscopic Analysis of Uptake and Host-Guest Interactions. <i>ChemSusChem</i> , 2014, 7, 1696-1702.	3.6	34
22	Magnetic carbon nanotubes with particle-free surfaces and high drug loading capacity. <i>Nanotechnology</i> , 2011, 22, 355602.	1.3	33
23	A methodology for the morphological and physicochemical characterisation of asymmetric carbon hollow fiber membranes. <i>Journal of Membrane Science</i> , 2011, 375, 113-123.	4.1	33
24	Investigation of Confined Ionic Liquid in Nanostructured Materials by a Combination of SANS, Contrast-Matching SANS, and Nitrogen Adsorption. <i>Langmuir</i> , 2011, 27, 7980-7985.	1.6	32
25	Carbon Nanotube Selective Membranes with Subnanometer, Vertically Aligned Pores, and Enhanced Gas Transport Properties. <i>Chemistry of Materials</i> , 2015, 27, 8198-8210.	3.2	32
26	Synthesis and characterisation of carbon nanotube modified anodised alumina membranes. <i>Microporous and Mesoporous Materials</i> , 2008, 110, 25-36.	2.2	30
27	Innovative methods for preparation and testing of Al <sub>2</sub> O <sub>3</sub> supported silicalite-1 membranes. <i>Journal of the European Ceramic Society</i> , 2001, 21, 119-126.	2.8	29
28	Comparative study of the rate and locality of silica deposition during the CVD treatment of porous membranes with TEOS and TMOS. <i>Microporous and Mesoporous Materials</i> , 2009, 120, 177-185.	2.2	28
29	Comparison of self-standing and supported graphene oxide membranes prepared by simple filtration: Gas and vapor separation, pore structure and stability. <i>Journal of Membrane Science</i> , 2017, 522, 303-315.	4.1	27
30	Development and characterization of silica-based membranes for hydrogen separation. <i>Journal of Porous Materials</i> , 2008, 15, 551-557.	1.3	26
31	Characterization of carbonate rocks by combination of scattering, porosimetry and permeability techniques. <i>Microporous and Mesoporous Materials</i> , 2009, 120, 109-114.	2.2	25
32	One-step, in situ growth of unmodified graphene magnetic nanostructured composites. <i>Carbon</i> , 2014, 66, 467-475.	5.4	23
33	Methods of evaluating pore morphology in hybrid organic-inorganic porous materials. <i>Microporous and Mesoporous Materials</i> , 2009, 120, 53-61.	2.2	22
34	Catalytic NO <sub>x</sub> removal by single-wall carbon nanotube-supported Rh nanoparticles. <i>Journal of Hazardous Materials</i> , 2011, 194, 144-155.	6.5	19
35	Facile synthesis of carbon supported copper nanoparticles from alginate precursor with controlled metal content and catalytic NO reduction properties. <i>Journal of Hazardous Materials</i> , 2011, 189, 384-390.	6.5	19
36	Experimental investigation on separations of condensable from non-condensable vapors using mesoporous membranes. <i>Microporous and Mesoporous Materials</i> , 1999, 31, 151-162.	2.2	18

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37	Effect of a cyclic heating process on the CO <sub>2</sub> /N <sub>2</sub> separation performance and structure of a ceramic nanoporous membrane supporting the ionic liquid 1-methyl-3-octylimidazolium tricyanomethanide. Separation and Purification Technology, 2018, 200, 11-22.	3.9	18
38	Using clathrate hydrates for gas storage and gas-mixture separations: experimental and computational studies at multiple length scales. Molecular Physics, 2018, 116, 2041-2060.	0.8	18
39	Gas permeance properties of asymmetric carbon hollow fiber membranes at high feed pressures. Journal of Natural Gas Science and Engineering, 2016, 31, 842-851.	2.1	17
40	Recent Advances in Experimental Measurements of Mixed-Gas Three-Phase Hydrate Equilibria for Gas Mixture Separation and Energy-Related Applications. Journal of Chemical & Engineering Data, 2019, 64, 4991-5016.	1.0	17
41	Two- and three-phase equilibrium experimental measurements for the ternary CH <sub>4</sub> +CO <sub>2</sub> +H <sub>2</sub> O mixture. Fluid Phase Equilibria, 2017, 451, 96-105.	1.4	15
42	Solubility of Methane and Carbon Dioxide in the Aqueous Phase of the Ternary (Methane + Carbon Dioxide) System. Journal of Chemical & Engineering Data, 2018, 63, 1027-1035.	1.0	15
43	Grafting of alginates on UF/NF ceramic membranes for wastewater treatment. Journal of Hazardous Materials, 2010, 182, 611-623.	6.5	14
44	Boosting visible light harvesting and charge separation in surface modified TiO <sub>2</sub> photonic crystal catalysts with CoO nanoclusters. Materials Advances, 2020, 1, 2310-2322.	2.6	13
45	Correlating vibrational properties with temperature and pressure dependent CO <sub>2</sub> adsorption in zeolitic imidazolate frameworks. Applied Surface Science, 2020, 529, 147058.	3.1	13
46	Synthesis of nanocrystalline gold-carbon nanotube composites and evaluation of their sorption and catalytic properties. Microporous and Mesoporous Materials, 2009, 120, 122-131.	2.2	12
47	Porous carbons from ionic liquid precursors confined within nanoporous silicas. Microporous and Mesoporous Materials, 2016, 223, 163-175.	2.2	12
48	Synechococcus elongatus PCC7942: a cyanobacterium cell factory for producing useful chemicals and fuels under abiotic stress conditions. Photosynthesis Research, 2020, 146, 235-245.	1.6	12
49	Investigating the evolution of N <sub>2</sub> transport mechanism during the cyclic CVD post-treatment of silica membranes. Microporous and Mesoporous Materials, 2008, 110, 11-24.	2.2	11
50	Metal loaded nanoporous silicas with tailor-made properties through hyperbranched polymer assisted templating approaches. Microporous and Mesoporous Materials, 2016, 235, 107-119.	2.2	11
51	Development of a novel experimental apparatus for hydrate equilibrium measurements. Fluid Phase Equilibria, 2016, 424, 152-161.	1.4	10
52	A Green Route to Copper Loaded Silica Nanoparticles Using Hyperbranched Poly(Ethylene Imine) as a Biomimetic Template: Application in Heterogeneous Catalysis. Catalysts, 2017, 7, 390.	1.6	8
53	Ceramic-Supported Alginate Adsorbent for the Removal of Heavy Metal Ions. Adsorption Science and Technology, 2010, 28, 253-266.	1.5	7
54	Tubular C/Cu decorated $\gamma$ -alumina membranes for NO abatement. Journal of Membrane Science, 2016, 515, 134-143.	4.1	7

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55	A diamino-functionalized silsesquioxane pillared graphene oxide for CO <sub>2</sub> capture. RSC Advances, 2021, 11, 13743-13750.	1.7	1