George E Romanos

List of Publications by Year
in descending order

55	2,532	27	50
papers	citations	h-index	g-index
		201385	189595

55	55	55	3918
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A diamino-functionalized silsesquioxane pillared graphene oxide for CO₂ capture. RSC Advances, 2021, 11, 13743-13750.	1.7	1
2	Boosting visible light harvesting and charge separation in surface modified TiO₂ photonic crystal catalysts with CoO_x nanoclusters. Materials Advances, 2020, 1, 2310-2322.	2.6	13
3	Correlating vibrational properties with temperature and pressure dependent CO2 adsorption in zeolitic imidazolate frameworks. Applied Surface Science, 2020, 529, 147058.	3.1	13
4	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
5	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
6	Titania photonic crystal photocatalysts functionalized by graphene oxide nanocolloids. Applied Catalysis B: Environmental, 2019, 240, 277-290.	10.8	43
7	Effect of a cyclic heating process on the CO 2 /N 2 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
8	Solubility of Methane and Carbon Dioxide in the Aqueous Phase of the Ternary (Methane + Carbon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 of Chemical & Engineering Data, 2018, 63, 1027-1035.	1.0	15
9	CO2 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
10	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
11	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
12	Two- and three-phase equilibrium experimental measurements for the ternary CH 4 Â+ CO 2 Â+ H 2 O mixture. Fluid Phase Equilibria, 2017, 451, 96-105.	1.4	15
13	Comparison of self-standing and supported graphene oxide membranes prepared by simple filtration: Gas and vapor separation, pore structure and stability. Journal of Membrane Science, 2017, 522, 303-315.	4.1	27
14	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
15	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
16	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
17	Development of a novel experimental apparatus for hydrate equilibrium measurements. Fluid Phase Equilibria, 2016, 424, 152-161.	1.4	10
18	Tubular C/Cu decorated Î³-alumina membranes for NO abatement. Journal of Membrane Science, 2016, 515, 134-143.	4.1	7

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19	Porous carbons from ionic liquid precursors confined within nanoporous silicas. Microporous and Mesoporous Materials, 2016, 223, 163-175.	2.2	12
20	Solubility and Diffusivity of CO₂ 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
21	Non-activated high surface area expanded graphite oxide for supercapacitors. Applied Surface Science, 2015, 358, 110-121.	3.1	42
22	Carbon Nanotube Selective Membranes with Subnanometer, Vertically Aligned Pores, and Enhanced Gas Transport Properties. Chemistry of Materials, 2015, 27, 8198-8210.	3.2	32
23	Ceramic photocatalytic membranes for water filtration under UV and visible light. Applied Catalysis B: Environmental, 2015, 178, 12-19.	10.8	132
24	One-step, in situ growth of unmodified graphene â€" magnetic nanostructured composites. Carbon, 2014, 66, 467-475.	5.4	23
25	Pore structure, interface properties and photocatalytic efficiency of hydration/dehydration derived TiO2/CNT composites. Applied Catalysis B: Environmental, 2014, 147, 65-81.	10.8	80
26	Controlled surface functionalization of multiwall carbon nanotubes by HNO3 hydrothermal oxidation. Carbon, 2014, 69, 311-326.	5.4	95
27	Corrosion behaviour of mild steel in 1-alkyl-3-methylimidazolium tricyanomethanide ionic liquids for CO2 capture applications. RSC Advances, 2014, 4, 5300.	1.7	40
28	CO₂ 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
29	CO₂ Capture Efficiency, Corrosion Properties, and Ecotoxicity Evaluation of Amine Solutions Involving Newly Synthesized Ionic Liquids. Industrial & Engineering Chemistry Research, 2014, 53, 12083-12102.	1.8	34
30	CO₂ Captured in Zeolitic Imidazolate Frameworks: Raman Spectroscopic Analysis of Uptake and Hostâ€"Guest Interactions. ChemSusChem, 2014, 7, 1696-1702.	3.6	34
31	Zeolite Imidazolate Frameworkâ€"Ionic Liquid Hybrid Membranes for Highly Selective CO₂ Separation. Journal of Physical Chemistry C, 2013, 117, 18434-18440.	1.5	62
32	Enhanced CO₂ 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
33	Ionic Liquid-Modified Porous Materials for Gas Separation and Heterogeneous Catalysis. Journal of Physical Chemistry C, 2012, 116, 16398-16411.	1.5	35
34	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
35	Magnetic carbon nanotubes with particle-free surfaces and high drug loading capacity. Nanotechnology, 2011, 22, 355602.	1.3	33
36	Investigation of Confined Ionic Liquid in Nanostructured Materials by a Combination of SANS, Contrast-Matching SANS, and Nitrogen Adsorption. Langmuir, 2011, 27, 7980-7985.	1.6	32

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37	Catalytic NOx removal by single-wall carbon nanotube-supported Rh nanoparticles. Journal of Hazardous Materials, 2011, 194, 144-155.	6.5	19
38	A methodology for the morphological and physicochemical characterisation of asymmetric carbon hollow fiber membranes. Journal of Membrane Science, 2011, 375, 113-123.	4.1	33
39	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.	6.5	19
40	Metalâ€“carboxylate interactions in metalâ€“alginate complexes studied with FTIR spectroscopy. Carbohydrate Research, 2010, 345, 469-473.	1.1	626
41	Grafting of alginates on UF/NF ceramic membranes for wastewater treatment. Journal of Hazardous Materials, 2010, 182, 611-623.	6.5	14
42	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
43	Ceramic-Supported Alginate Adsorbent for the Removal of Heavy Metal Ions. Adsorption Science and Technology, 2010, 28, 253-266.	1.5	7
44	Grafting of Imidazolium Based Ionic Liquid on the Pore Surface of Nanoporous Materialsâ€"Study of Physicochemical and Thermodynamic Properties. Journal of Physical Chemistry B, 2010, 114, 6480-6491.	1.2	59
45	Methods of evaluating pore morphology in hybrid organicâ€“inorganic porous materials. Microporous and Mesoporous Materials, 2009, 120, 53-61.	2.2	22
46	Characterization of carbonate rocks by combination of scattering, porosimetry and permeability techniques. Microporous and Mesoporous Materials, 2009, 120, 109-114.	2.2	25
47	Synthesis of nanocrystalline goldâ€“carbon nanotube composites and evaluation of their sorption and catalytic properties. Microporous and Mesoporous Materials, 2009, 120, 122-131.	2.2	12
48	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.	2.2	28
49	Development and characterization of silica-based membranes for hydrogen separation. Journal of Porous Materials, 2008, 15, 551-557.	1.3	26
50	Investigating the evolution of N2 transport mechanism during the cyclic CVD post-treatment of silica membranes. Microporous and Mesoporous Materials, 2008, 110, 11-24.	2.2	11
51	Synthesis and characterisation of carbon nanotube modified anodised alumina membranes. Microporous and Mesoporous Materials, 2008, 110, 25-36.	2.2	30
52	Preparation and characterisation of gas selective microporous carbon membranes. Microporous and Mesoporous Materials, 2007, 99, 181-189.	2.2	34
53	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
54	Innovative methods for preparation and testing of Al2O3 supported silicalite-1 membranes. Journal of the European Ceramic Society, 2001, 21, 119-126.	2.8	29

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55	Experimental investigation on separations of condensable from non-condensable vapors using mesoporous membranes. Microporous and Mesoporous Materials, 1999, 31, 151-162.	2.2	18