

Theodore A Steriotis

List of Publications by Year in descending order

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110
papers

4,196
citations

156536

32
h-index

139680

61
g-index

110
all docs

110
docs citations

110
times ranked

7352
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoporous polymer-derived activated carbon for hydrogen adsorption and electrochemical energy storage. <i>Chemical Engineering Journal</i> , 2022, 427, 131730.	6.6	38
2	Data mining for predicting gas diffusivity in zeolitic-imidazolate frameworks (ZIFs). <i>Journal of Materials Chemistry A</i> , 2022, 10, 13697-13703.	5.2	11
3	Effect of Pt nanoparticle decoration on the H ₂ storage performance of plasma-derived nanoporous graphene. <i>Carbon</i> , 2021, 171, 294-305.	5.4	27
4	Oral Drug Delivery Systems Based on Ordered Mesoporous Silica Nanoparticles for Modulating the Release of Aprepitant. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1896.	1.8	17
5	A shelf-life study of silica- and carbon-based mesoporous materials. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 101, 205-213.	2.9	10
6	Biodistribution of Mesoporous Carbon Nanoparticles via Technetium-99m Radiolabelling after Oral Administration to Mice. <i>Nanomaterials</i> , 2021, 11, 3260.	1.9	5
7	Study of CO ₂ adsorption on a commercial CuO/ZnO/Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2020, 357, 495-502.	2.2	29
8	Total neutron scattering study of supercooled CO ₂ confined in an ordered mesoporous carbon. <i>Carbon</i> , 2020, 167, 296-306.	5.4	3
9	ENDURUNS: An Integrated and Flexible Approach for Seabed Survey Through Autonomous Mobile Vehicles. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 633.	1.2	38
10	A reference high-pressure CH ₄ adsorption isotherm for zeolite Y: results of an interlaboratory study. <i>Adsorption</i> , 2020, 26, 1253-1266.	1.4	27
11	Embedding Ordered Mesoporous Carbons into Thermosensitive Hydrogels: A Cutting-Edge Strategy to Vehiculate a Cargo and Control Its Release Profile. <i>Nanomaterials</i> , 2020, 10, 2165.	1.9	8
12	Engineered pH-Responsive Mesoporous Carbon Nanoparticles for Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14946-14957.	4.0	59
13	Hydrogen Sorption and Reversibility of the LiBH ₄ -KBH ₄ Eutectic System Confined in a CMK-3 Type Carbon via Melt Infiltration. <i>Journal of Carbon Research</i> , 2020, 6, 19.	1.4	7
14	Composite Membranes of Poly(μ -caprolactone) with Bisphosphonate-Loaded Bioactive Glasses for Potential Bone Tissue Engineering Applications. <i>Molecules</i> , 2019, 24, 3067.	1.7	25
15	Plasma-Derived Graphene-Based Materials for Water Purification and Energy Storage. <i>Journal of Carbon Research</i> , 2019, 5, 16.	1.4	7
16	<p>Silver Decorated Mesoporous Carbons for the Treatment of Acute and Chronic Wounds, in a Tissue Regeneration Context</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 10147-10164.	3.3	12
17	Novel combustion synthesis of carbon foamâaluminum fluoride nanocomposite materials. <i>Materials and Design</i> , 2018, 144, 222-228.	3.3	14
18	Synthesis, characterization and assessment of hydrophilic oxidized carbon nanodiscs in bio-related applications. <i>RSC Advances</i> , 2018, 8, 122-131.	1.7	5

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19	Electrosprayed mesoporous particles for improved aqueous solubility of a poorly water soluble anticancer agent: in vitro and ex vivo evaluation. <i>Journal of Controlled Release</i> , 2018, 278, 142-155.	4.8	62
20	High-quality graphene sheets decorated with ZIF-8 nanocrystals. <i>Microporous and Mesoporous Materials</i> , 2018, 262, 68-76.	2.2	12
21	High-Performance Supercapacitors Based on a Zwitterionic Network of Covalently Functionalized Graphene with Iron Tetraaminophthalocyanine. <i>Advanced Functional Materials</i> , 2018, 28, 1801111.	7.8	38
22	Biocompatible Nanobioglass Reinforced Poly(μ -Caprolactone) Composites Synthesized via In Situ Ring Opening Polymerization. <i>Polymers</i> , 2018, 10, 381.	2.0	23
23	Graphene: High-Performance Supercapacitors Based on a Zwitterionic Network of Covalently Functionalized Graphene with Iron Tetraaminophthalocyanine (<i>Adv. Funct. Mater.</i> 29/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870203.	7.8	0
24	Effect of additives, ball milling and isotopic exchange in porous magnesium borohydride. <i>RSC Advances</i> , 2018, 8, 27645-27653.	1.7	19
25	Heterometallic In(III)-Pd(II) Porous Metal-Organic Framework with Square-Octahedron Topology Displaying High CO ₂ Uptake and Selectivity toward CH ₄ and N ₂ . <i>Inorganic Chemistry</i> , 2018, 57, 7244-7251.	1.9	37
26	Nanoconfined NaAlH ₄ Conversion Electrodes for Li Batteries. <i>ACS Omega</i> , 2017, 2, 1956-1967.	1.6	18
27	Solvothermal synthesis, nanostructural characterization and gas cryo-adsorption studies in a metal-organic framework (IRMOF-1) material. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 23899-23907.	3.8	28
28	Material development and assessment of an energy storage concept based on the CaO-looping process. <i>Solar Energy</i> , 2017, 150, 298-309.	2.9	51
29	Determining the specific surface area of Metal Organic Frameworks based on a computational approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 526, 14-19.	2.3	2
30	Nanoporous activated carbon cloth as a versatile material for hydrogen adsorption, selective gas separation and electrochemical energy storage. <i>Nano Energy</i> , 2017, 40, 49-64.	8.2	101
31	Carbon Adsorbents With Dual Porosity for Efficient Removal of Uremic Toxins and Cytokines from Human Plasma. <i>Scientific Reports</i> , 2017, 7, 14914.	1.6	52
32	Development and evaluation of materials for thermochemical heat storage based on the CaO/CaCO ₃ reaction couple. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	17
33	Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14404-14428.	3.8	94
34	Evaluation of mesoporous carbon aerogels as carriers of the non-steroidal anti-inflammatory drug ibuprofen. <i>International Journal of Pharmaceutics</i> , 2016, 515, 262-270.	2.6	23
35	A microporous Cu ²⁺ MOF based on a pyridyl isophthalic acid Schiff base ligand with high CO ₂ uptake. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1527-1535.	3.0	22
36	Nafion® nanocomposite membranes with enhanced properties at high temperature and low humidity environments. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 22406-22414.	3.8	51

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37	Few-layer graphene-like flakes derived by plasma treatment: A potential material for hydrogen adsorption and storage. <i>Microporous and Mesoporous Materials</i> , 2016, 225, 482-487.	2.2	37
38	Comparing hydrogen sorption in different Pd-doped pristine and surface-modified nanoporous carbons. <i>Carbon</i> , 2016, 98, 1-14.	5.4	11
39	On the orientation of N ₂ and CO ₂ molecules adsorbed in slit pore models with oxidised graphitic surface. <i>Molecular Simulation</i> , 2016, 42, 186-195.	0.9	13
40	Nanoporous spongy graphene: Potential applications for hydrogen adsorption and selective gas separation. <i>Thin Solid Films</i> , 2015, 596, 242-249.	0.8	23
41	Hydrogen storage properties of Pd-doped thermally oxidized single wall carbon nanohorns. <i>Journal of Alloys and Compounds</i> , 2015, 645, S485-S489.	2.8	13
42	Synthesis of nanoporous graphene oxide adsorbents by freeze-drying or microwave radiation: Characterization and hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6844-6852.	3.8	30
43	Hydrogen desorption and cycling properties of composites based on mesoporous carbons and a LiBH ₄ -Ca(BH ₄) ₂ eutectic mixture. <i>Journal of Alloys and Compounds</i> , 2015, 645, S480-S484.	2.8	14
44	Enhanced gas-sorption properties of a high surface area, ultramicroporous magnesium formate. <i>CrystEngComm</i> , 2015, 17, 532-539.	1.3	32
45	A complete transport validated model on a zeolite membrane for carbon dioxide permeance and capture. <i>Applied Thermal Engineering</i> , 2015, 74, 36-46.	3.0	14
46	Adsorption in micro and mesoporous slit carbons with oxygen surface functionalities. <i>Microporous and Mesoporous Materials</i> , 2015, 209, 141-149.	2.2	15
47	Controlled surface functionalization of multiwall carbon nanotubes by HNO ₃ hydrothermal oxidation. <i>Carbon</i> , 2014, 69, 311-326.	5.4	95
48	The required level of isosteric heat for the adsorptive/storage delivery of H ₂ in the UiO series of MOFs. <i>RSC Advances</i> , 2014, 4, 44848-44851.	1.7	4
49	Hydrogen sorption properties of Pd-doped carbon molecular sieves. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9830-9836.	3.8	16
50	A hydrogen sorption study on a Pd-doped CMK-3 type ordered mesoporous carbon. <i>Adsorption</i> , 2013, 19, 803-811.	1.4	9
51	H ₂ /D ₂ adsorption and desorption studies on carbon molecular sieves with different pore structures. <i>Carbon</i> , 2013, 57, 239-247.	5.4	34
52	Effect of surface functionalities on gas adsorption in microporous carbons: a grand canonical Monte Carlo study. <i>Adsorption</i> , 2013, 19, 745-756.	1.4	17
53	Development of new drug delivery system based on ordered mesoporous carbons: characterisation and cytocompatibility studies. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3167.	2.9	37
54	The effect of compositional changes on the structural and hydrogen storage properties of (La-Ce)Ni ₅ type intermetallics towards compounds suitable for metal hydride hydrogen compression. <i>Journal of Alloys and Compounds</i> , 2013, 580, S268-S270.	2.8	52

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55	Experimental and theoretical study of D ₂ /H ₂ quantum sieving in a carbon molecular sieve. <i>Adsorption</i> , 2013, 19, 373-379.	1.4	8
56	D ₂ /H ₂ quantum sieving in microporous carbons: a theoretical study on the effects of pore size and pressure. <i>Molecular Physics</i> , 2012, 110, 1179-1187.	0.8	14
57	Synthesis and characterisation of a mesoporous carbon/calcium borohydride nanocomposite for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16631-16635.	3.8	17
58	Role of Glucose in Enhancing Stability of Aqueous Silica Gels Against Dehydration. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9481-9486.	1.5	6
59	Merging High Doxorubicin Loading with Pronounced Magnetic Response and Bio-repellent Properties in Hybrid Drug Nanocarriers. <i>Small</i> , 2012, 8, 2381-2393.	5.2	39
60	Theoretical study of hydrogen adsorption in oxygen functionalized carbon slit pores. <i>Microporous and Mesoporous Materials</i> , 2012, 154, 38-44.	2.2	35
61	Synthesis and characterisation of nanoporous carbon-metal composites for hydrogen storage. <i>Microporous and Mesoporous Materials</i> , 2012, 154, 74-81.	2.2	17
62	Properties of poly(vinyl alcohol)-Bentonite clay nanocomposite films in relation to polymer-clay interactions. <i>Journal of Applied Polymer Science</i> , 2012, 123, 1812-1821.	1.3	73
63	Enhanced hydrogen storage by spillover on metal-doped carbon foam: an experimental and computational study. <i>Nanoscale</i> , 2011, 3, 933.	2.8	65
64	Controlling and Quantifying Oxygen Functionalities on Hydrothermally and Thermally Treated Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8534-8546.	1.5	55
65	Nanostructured composites of mesoporous carbons and boranates as hydrogen storage materials. <i>Journal of Alloys and Compounds</i> , 2011, 509, S705-S708.	2.8	31
66	Nanoporous carbon-metal composites for hydrogen storage. <i>Open Chemistry</i> , 2011, 9, 948-952.	1.0	3
67	A grand canonical Monte Carlo study of hydrogen adsorption in carbon nanohorns and nanocones at 77K. <i>Carbon</i> , 2011, 49, 2715-2724.	5.4	27
68	Organic functionalisation of graphenes. <i>Chemical Communications</i> , 2010, 46, 1766.	2.2	254
69	Grand canonical Monte Carlo simulations of hydrogen adsorption in carbon cones. <i>Applied Surface Science</i> , 2010, 256, 5226-5231.	3.1	32
70	Determination of the spatial distribution of multiple fluid phases in porous media by ultra-small-angle neutron scattering. <i>Applied Surface Science</i> , 2010, 256, 5329-5333.	3.1	2
71	Graphene Fluoride: A Stable Stoichiometric Graphene Derivative and its Chemical Conversion to Graphene. <i>Small</i> , 2010, 6, 2885-2891.	5.2	386
72	Direct synthesis of carbon nanosheets by the solid-state pyrolysis of betaine. <i>Journal of Materials Science</i> , 2009, 44, 1407-1411.	1.7	15

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73	Liquid-Phase Exfoliation of Graphite Towards Solubilized Graphenes. <i>Small</i> , 2009, 5, 1841-1845.	5.2	508
74	A Round Robin characterisation of the hydrogen sorption properties of a carbon based material. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 3044-3057.	3.8	73
75	Aqueous-phase exfoliation of graphite in the presence of polyvinylpyrrolidone for the production of water-soluble graphenes. <i>Solid State Communications</i> , 2009, 149, 2172-2176.	0.9	255
76	Development of an innovative mercury intrusion technique to examine defects plugging after CVD treatment of NF composite membranes. <i>Journal of Porous Materials</i> , 2008, 15, 83-91.	1.3	3
77	Biopolymer Networks for the Solid-State Production of Porous Magnetic Beads and Wires. <i>Advanced Functional Materials</i> , 2007, 17, 1409-1416.	7.8	8
78	Characterization of nanoporous carbons by combining CO ₂ and H ₂ sorption data with the Monte Carlo simulations. <i>Applied Surface Science</i> , 2007, 253, 5715-5720.	3.1	23
79	Study of structural irregularities of smectite clay systems by small-angle neutron scattering and adsorption. <i>Applied Surface Science</i> , 2007, 253, 5633-5639.	3.1	17
80	Synthesis, characterization and gas sorption properties of a molecularly-derived graphite oxide-like foam. <i>Carbon</i> , 2007, 45, 852-857.	5.4	60
81	Application of an innovative mercury intrusion technique and relative permeability to examine the thin layer pores of sol-gel and CVD post-treated membranes. <i>Microporous and Mesoporous Materials</i> , 2007, 99, 206-215.	2.2	9
82	High pressure N ₂ /CH ₄ adsorption measurements in clinoptilolites. <i>Microporous and Mesoporous Materials</i> , 2007, 99, 106-111.	2.2	77
83	Preparation and characterisation of gas selective microporous carbon membranes. <i>Microporous and Mesoporous Materials</i> , 2007, 99, 181-189.	2.2	34
84	Multiscale modeling and optimization of H ₂ storage using nanoporous adsorbents. <i>AIChE Journal</i> , 2006, 52, 2964-2977.	1.8	7
85	Porous ceramic membranes for propane-propylene separation via the π -complexation mechanism: unsupported systems. <i>Microporous and Mesoporous Materials</i> , 2005, 78, 235-243.	2.2	26
86	Combination of small angle neutron scattering data and mesoscopic simulation techniques as a tool for the structural characterization and prediction of properties of bi-phasic media. <i>Chemical Physics</i> , 2005, 317, 298-311.	0.9	11
87	Aqueous and Gaseous Adsorption from Montmorillonite-Carbon Composites and from Derived Carbons. <i>Langmuir</i> , 2005, 21, 2349-2355.	1.6	32
88	Copper- and Silver-Containing Monolithic Silica-Supported Preparations for Selective Propane Adsorption from the Gas Phase. <i>Chemistry of Materials</i> , 2005, 17, 6117-6127.	3.2	17
89	Nanostructural characterisation of catalysts by SANS. <i>Physica B: Condensed Matter</i> , 2004, 350, E521-E524.	1.3	2
90	Characterisation of porous materials by combining mercury porosimetry and scattering techniques. <i>Physica B: Condensed Matter</i> , 2004, 350, E525-E527.	1.3	7

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91	Structural alterations of fully hydrated human stratum corneum. <i>Physica B: Condensed Matter</i> , 2004, 350, E603-E606.	1.3	29
92	High Surface Area Montmorillonite [®] Carbon Composites and Derived Carbons. <i>Chemistry of Materials</i> , 2004, 16, 1551-1559.	3.2	140
93	Porous Silica Materials Derivatized with Cu and Ag Cations for Selective Propene [®] Propane Adsorption from the Gas Phase: α -Aluminosilicate Ion-Exchanged Monoliths. <i>Chemistry of Materials</i> , 2004, 16, 3911-3918.	3.2	22
94	Water diffusion in fully hydrated porcine stratum corneum. <i>Chemical Physics</i> , 2003, 292, 465-476.	0.9	35
95	Nanostructures of the montmorillonite-derived restructured clays K10 [®] , HMO and the Mg ²⁺ exchanged analogue Mg-HMO. A SANS, N ₂ sorption and XRPD study. <i>Journal of Materials Chemistry</i> , 2003, 13, 1145-1148.	6.7	7
96	Combination of SANS and 3D stochastic reconstruction techniques for the study of nanostructured materials. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s954-s956.	1.1	11
97	A neutron-diffraction study of the effect of hydration on stratum corneum structure. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1245-s1247.	1.1	15
98	Structural studies of supercritical carbon dioxide in confined space. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1333-s1335.	1.1	24
99	Innovative methods for preparation and testing of Al ₂ O ₃ supported silicalite-1 membranes. <i>Journal of the European Ceramic Society</i> , 2001, 21, 119-126.	2.8	29
100	Asymmetric Inorganic Membranes Through Langmuir [®] Blodgett Deposition and Plasma Processing. <i>Journal of Porous Materials</i> , 2001, 8, 251-264.	1.3	3
101	Membrane Characterisation by Combination of Static and Dynamic Techniques. <i>Membrane Science and Technology</i> , 2000, 6, 1-34.	0.5	7
102	Structural and Transport Properties of Alumina Porous Membranes from Process-Based and Statistical Reconstruction Techniques. <i>Journal of Colloid and Interface Science</i> , 2000, 231, 158-167.	5.0	36
103	Diffusion in a Fractal System. <i>Journal of Colloid and Interface Science</i> , 1998, 206, 605-606.	5.0	18
104	The combination of equilibrium and dynamic methods for the detailed structural characterisation of ceramic membranes. <i>Journal of the European Ceramic Society</i> , 1998, 18, 1545-1558.	2.8	8
105	Investigation of Water Sorption on Porcine Stratum Corneum by Very Small Angle Neutron Scattering. <i>Journal of Investigative Dermatology</i> , 1998, 110, 988-990.	0.3	19
106	A novel experimental technique for the measurement of the single-phase gas relative permeability of porous solids. <i>Measurement Science and Technology</i> , 1997, 8, 168-173.	1.4	24
107	Neutron scattering from water adsorbed on an alumina membrane. <i>Journal of Membrane Science</i> , 1997, 129, 289-295.	4.1	10
108	Novel design for high pressure, integral, differential, absolute, and relative multicomponent permeability measurements. <i>Review of Scientific Instruments</i> , 1996, 67, 2545-2548.	0.6	25

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109	Water adsorption and small angle X-ray scattering studies on the effect of coal thermal treatment. Carbon, 1996, 34, 775-781.	5.4	14
110	Characterisation of porous solids by simplified gas relative permeability measurements. Journal of Porous Materials, 1995, 2, 73-77.	1.3	14