

Raül Sanz

List of Publications by Year in descending order

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90
papers

3,710
citations

101543

36
h-index

138484

58
g-index

91
all docs

91
docs citations

91
times ranked

4135
citing authors

#	ARTICLE	IF	CITATIONS
19	Stability of pore-plated membranes for hydrogen production in fluidized-bed membrane reactors. International Journal of Hydrogen Energy, 2020, 45, 7374-7385.	7.1	27
20	Pd-thickness reduction in electroless pore-plated membranes by using doped-ceria as interlayer. International Journal of Hydrogen Energy, 2020, 45, 7278-7289.	7.1	16
21	Untangling the role of the organosilane functional groups in the synthesis of hierarchical ZSM-5 zeolite by crystallization of silanized protozeolitic units. Catalysis Today, 2020, 345, 27-38.	4.4	12
22	Coating of Ca(OH) ₂ / γ -Al ₂ O ₃ pellets with mesoporous Al ₂ O ₃ and its application in thermochemical heat storage for CSP plants. Renewable Energy, 2020, 162, 587-595.	8.9	16
23	Effective H ₂ Separation through Electroless Pore-Plated Pd Membranes Containing Graphite Lead Barriers. Membranes, 2020, 10, 410.	3.0	4
24	Fine-tuning hierarchical ZSM-5 zeolite by controlled aggregation of protozeolitic units functionalized with tertiary amine-containing organosilane. Microporous and Mesoporous Materials, 2020, 303, 110189.	4.4	13
25	Hydrogen production by water splitting with Mn _{3-x} CoxO ₄ mixed oxides thermochemical cycles: A thermodynamic analysis. Energy Conversion and Management, 2020, 216, 112945.	9.2	11
26	Ultra-Pure Hydrogen via Co-Valorization of Olive Mill Wastewater and Bioethanol in Pd-Membrane Reactors. Processes, 2020, 8, 219.	2.8	13
27	Effectiveness of amino-functionalized sorbents for co ₂ capture in the presence of Hg. Fuel, 2020, 267, 117250.	6.4	13
28	Effect of acid activation on the CO ₂ adsorption capacity of montmorillonite. Adsorption, 2020, 26, 793-811.	3.0	21
29	Pd membranes by electroless pore-plating. , 2020, , 31-62.		4
30	Engineering hollow mesoporous silica nanoparticles to increase cytotoxicity. Materials Science and Engineering C, 2020, 112, 110935.	7.3	20
31	Comparative study of ASNase immobilization on tannic acid-modified magnetic Fe ₃ O ₄ /SBA-15 nanoparticles to enhance stability and reusability. New Journal of Chemistry, 2020, 44, 4440-4451.	2.8	37
32	Novel Perovskite Materials for Thermal Water Splitting at Moderate Temperature. ChemSusChem, 2019, 12, 4029-4037.	6.8	9
33	Amine grafting of acid-activated bentonite for carbon dioxide capture. Applied Clay Science, 2019, 180, 105195.	5.2	23
34	Co-evaluation of interaction parameters of genomic and plasmid DNA for a new chromatographic medium. International Journal of Biological Macromolecules, 2019, 141, 1183-1190.	7.5	15
35	H ₂ permeation increase of electroless pore-plated Pd/PSS membranes with CeO ₂ intermediate barriers. Separation and Purification Technology, 2019, 216, 16-24.	7.9	22
36	Hybrid amine-silica materials: Determination of N content by ²⁹ Si NMR and application to direct CO ₂ capture from air. Chemical Engineering Journal, 2019, 373, 1286-1294.	12.7	34

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37	Effect of the dual incorporation of fullerene and polyethyleneimine moieties into SBA-15 materials as platforms for drug delivery. <i>Journal of Materials Science</i> , 2019, 54, 11635-11653.	3.7	12
38	CO ₂ adsorption on amine-functionalized clays. <i>Microporous and Mesoporous Materials</i> , 2019, 282, 38-47.	4.4	66
39	Bromine pre-functionalized porous polyphenylenes: New platforms for one-step grafting and applications in reversible CO ₂ capture. <i>Journal of CO₂ Utilization</i> , 2019, 30, 183-192.	6.8	23
40	Preparation of a new chromatographic media and assessment of some kinetic and interaction parameters for lysozyme. <i>Journal of Molecular Liquids</i> , 2019, 276, 480-487.	4.9	18
41	Tuning the textural properties of HMS mesoporous silica. Functionalization towards CO ₂ adsorption. <i>Microporous and Mesoporous Materials</i> , 2018, 260, 235-244.	4.4	77
42	Influence of the selective layer morphology on the permeation properties for Pd-PSS composite membranes prepared by electroless pore-plating: Experimental and modeling study. <i>Separation and Purification Technology</i> , 2018, 194, 10-18.	7.9	21
43	Modelling the adsorption and controlled release of drugs from the pure and amino surface-functionalized mesoporous silica hosts. <i>Microporous and Mesoporous Materials</i> , 2018, 262, 23-34.	4.4	40
44	Synthesis of hierarchical Beta zeolite with uniform mesopores: Effect on its catalytic activity for veratrole acylation. <i>Catalysis Today</i> , 2018, 304, 89-96.	4.4	28
45	Alkaline-earth metal based MOFs with second scale long-lasting phosphor behavior. <i>CrystEngComm</i> , 2018, 20, 4793-4803.	2.6	29
46	Review of Supported Pd-Based Membranes Preparation by Electroless Plating for Ultra-Pure Hydrogen Production. <i>Membranes</i> , 2018, 8, 5.	3.0	103
47	Thermochemical hydrogen production using manganese cobalt spinels as redox materials. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13532-13543.	7.1	26
48	Surface-functionalization of mesoporous SBA-15 silica materials for controlled release of methylprednisolone sodium hemisuccinate: Influence of functionality type and strategies of incorporation. <i>Microporous and Mesoporous Materials</i> , 2017, 240, 236-245.	4.4	40
49	Reuse and recycling of amine-functionalized silica materials for CO ₂ adsorption. <i>Chemical Engineering Journal</i> , 2017, 308, 1021-1033.	12.7	80
50	Hydrogen permeation in composite Pd-membranes prepared by conventional electroless plating and electroless pore-plating alternatives over ceramic and metallic supports. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19430-19438.	7.1	40
51	Perovskite materials for hydrogen production by thermochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19329-19338.	7.1	77
52	Highly Active Anti-Diabetic Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2016, 16, 537-540.	3.0	23
53	Amino-impregnated MOF materials for CO ₂ capture at post-combustion conditions. <i>Chemical Engineering Science</i> , 2016, 142, 55-61.	3.8	103
54	New developments on carbon dioxide capture using amine-impregnated silicas. <i>Adsorption</i> , 2016, 22, 609-619.	3.0	41

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55	Hierarchical ZSM-5 zeolite with uniform mesopores and improved catalytic properties. <i>New Journal of Chemistry</i> , 2016, 40, 4206-4216.	2.8	32
56	Hydrogen production in a Pore-Plated Pd-membrane reactor: Experimental analysis and model validation for the Water Gas Shift reaction. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 3472-3484.	7.1	33
57	An investigation of the textural properties of mesostructured silica-based adsorbents for predicting CO ₂ adsorption capacity. <i>RSC Advances</i> , 2015, 5, 103147-103154.	3.6	18
58	CO ₂ capture with pore-expanded MCM-41 silica modified with amino groups by double functionalization. <i>Microporous and Mesoporous Materials</i> , 2015, 209, 165-171.	4.4	105
59	Influence of the structural and textural properties of ordered mesoporous materials and hierarchical zeolitic supports on the controlled release of methylprednisolone hemisuccinate. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7996-8004.	5.8	29
60	Narrowing the mesopore size distribution in hierarchical TS-1 zeolite by surfactant-assisted reorganization. <i>Microporous and Mesoporous Materials</i> , 2014, 189, 71-82.	4.4	49
61	Copper-based MOF-74 material as effective acid catalyst in Friedel-Crafts acylation of anisole. <i>Catalysis Today</i> , 2014, 227, 130-137.	4.4	103
62	Thermal stability and effect of typical water gas shift reactant composition on H ₂ permeability through a Pd-YSZ-PSS composite membrane. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 1398-1409.	7.1	32
63	Hierarchical TS-1 zeolite as an efficient catalyst for oxidative desulphurization of hydrocarbon fractions. <i>Applied Catalysis B: Environmental</i> , 2014, 146, 35-42.	20.2	101
64	H ₂ production via water gas shift in a composite Pd membrane reactor prepared by the pore-plating method. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4739-4748.	7.1	43
65	Selective oxidation of benzyl alcohol using in situ generated H ₂ O ₂ over hierarchical Au-Pd titanium silicalite catalysts. <i>Catalysis Science and Technology</i> , 2013, 3, 2425.	4.1	39
66	Modelling and simulation of permeation behaviour on Pd/PSS composite membranes prepared by the pore-plating method. <i>Journal of Membrane Science</i> , 2013, 446, 410-421.	8.2	22
67	Synthesis of a honeycomb-like Cu-based metal-organic framework and its carbon dioxide adsorption behaviour. <i>Dalton Transactions</i> , 2013, 42, 2392-2398.	3.3	174
68	CO ₂ Uptake and Adsorption Kinetics of Pore-Expanded SBA-15 Double-Functionalized with Amino Groups. <i>Energy & Fuels</i> , 2013, 27, 7637-7644.	5.1	57
69	Improvement of the hierarchical TS-1 properties by silanization of protozeolitic units in presence of alcohols. <i>Microporous and Mesoporous Materials</i> , 2013, 166, 59-66.	4.4	27
70	CO ₂ adsorption performance of amino-functionalized SBA-15 under post-combustion conditions. <i>International Journal of Greenhouse Gas Control</i> , 2013, 17, 366-375.	4.6	107
71	Amino-functionalized pore-expanded SBA-15 for CO ₂ adsorption. <i>Adsorption</i> , 2013, 19, 589-600.	3.0	68
72	Development of high efficiency adsorbents for CO ₂ capture based on a double-functionalization method of grafting and impregnation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1956.	10.3	103

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73	Tailoring the properties of hierarchical TS-1 zeolite synthesized from silanized protozeolitic units. <i>Applied Catalysis A: General</i> , 2012, 435-436, 32-42.	4.3	59
74	New synthesis method of Pd membranes over tubular PSS supports via "pore-plating" for hydrogen separation processes. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 18476-18485.	7.1	40
75	Influence of the type of siliceous material used as intermediate layer in the preparation of hydrogen selective palladium composite membranes over a porous stainless steel support. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6030-6042.	7.1	36
76	Amino functionalized mesostructured SBA-15 silica for CO ₂ capture: Exploring the relation between the adsorption capacity and the distribution of amino groups by TEM. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 309-317.	4.4	135
77	Preparation, testing and modelling of a hydrogen selective Pd/YSZ/SS composite membrane. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15783-15793.	7.1	53
78	Influence of Drying Conditions on Amine-Functionalized SBA-15 as Adsorbent of CO ₂ . <i>Topics in Catalysis</i> , 2011, 54, 135-145.	2.8	100
79	Hierarchical TS-1 zeolite synthesized from SiO ₂ TiO ₂ xerogels imprinted with silanized protozeolitic units. <i>Chemical Engineering Journal</i> , 2011, 171, 1428-1438.	12.7	58
80	Synthesis of Hierarchical TS-1 Zeolite from Silanized Seeds. <i>Topics in Catalysis</i> , 2010, 53, 1319-1329.	2.8	34
81	CO ₂ adsorption on branched polyethyleneimine-impregnated mesoporous silica SBA-15. <i>Applied Surface Science</i> , 2010, 256, 5323-5328.	6.1	230
82	Preparation of extruded catalysts based on TS-1 zeolite for their application in propylene epoxidation. <i>Catalysis Today</i> , 2009, 143, 151-157.	4.4	61
83	Turning TS-1 zeolite into a highly active catalyst for olefin epoxidation with organic hydroperoxides. <i>Chemical Communications</i> , 2009, , 1407.	4.1	84
84	Mesostructured SiO ₂ -doped TiO ₂ with enhanced thermal stability prepared by a soft-templating sol-gel route. <i>Microporous and Mesoporous Materials</i> , 2008, 111, 429-440.	4.4	50
85	Development of crystallinity and photocatalytic properties in porous TiO ₂ by mild acid treatment. <i>Journal of Materials Chemistry</i> , 2007, 17, 1178.	6.7	41
86	Platinum Catalyst on Multiwalled Carbon Nanotubes for the Catalytic Wet Air Oxidation of Phenol. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 6449-6455.	3.7	36
87	Synthesis and crystallization mechanism of zeolite TS-2 by microwave and conventional heating. <i>Microporous and Mesoporous Materials</i> , 2004, 69, 197-208.	4.4	69
88	Preparation of bimodal micro-mesoporous TiO ₂ with tailored crystalline properties. <i>Chemical Communications</i> , 2004, , 1000-1001.	4.1	34
89	Crystallization mechanism of all-silica zeolite beta in fluoride medium. <i>Microporous and Mesoporous Materials</i> , 2001, 46, 35-46.	4.4	81
90	Preliminary study on the TS-1 deactivation during styrene oxidation with H ₂ O ₂ . <i>Catalysis Today</i> , 2000, 61, 263-270.	4.4	40