Ignacio Gascon

List of Publications by Year in descending order

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99 papers	2,868 citations	249298 26 h-index	223390 49 g-index
101 all docs	101 docs citations	101 times ranked	4081 citing authors

#	Article	IF	Citations
1	Influence of the Surface Chemistry of Metalâ€“Organic Polyhedra in Their Assembly into Ultrathin Films for Gas Separation. ACS Applied Materials & Interfaces, 2022, 14, 27495-27506.	4.0	6
2	Solvent-exchange process in MOF ultrathin films and its effect on CO2 and methanol adsorption. Journal of Colloid and Interface Science, 2021, 590, 72-81.	5.0	17
3	Coating of Conducting and Insulating Threads with Porous MOF Particles through Langmuir-Blodgett Technique. Nanomaterials, 2021, 11, 160.	1.9	3
4	Ultrathin Films of Porous Metalâ€“Organic Polyhedra for Gas Separation. Chemistry - A European Journal, 2020, 26, 143-147.	1.7	23
5	Vanadyl spin qubit 2D arrays and their integration on superconducting resonators. Materials Horizons, 2020, 7, 885-897.	6.4	41
6	Methanol and Humidity Capacitive Sensors Based on Thin Films of MOF Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 4155-4162.	4.0	113
7	Highly Selective Metalâ€“Organic Framework Textile Humidity Sensor. ACS Applied Materials & Interfaces, 2020, 12, 29999-30006.	4.0	38
8	Volumetric properties of three pyridinium-based ionic liquids with a common cation or anion. Fluid Phase Equilibria, 2020, 521, 112732.	1.4	7
9	Ultrathin hydrophobic films based on the metal organic framework UiO-66-COOH(Zr). Beilstein Journal of Nanotechnology, 2019, 10, 654-665.	1.5	7
10	The fabrication of ultrathin films and their gas separation performance from polymers of intrinsic microporosity with two-dimensional (2D) and three-dimensional (3D) chain conformations. Journal of Colloid and Interface Science, 2019, 536, 474-482.	5.0	20
11	Interfacial tensions of pyridinium-based ionic liquids and n-alkanes or n-alkanols. Journal of Molecular Liquids, 2018, 252, 469-474.	2.3	5
12	Fabrication of ultrathin MIL-96(Al) films and study of CO2 adsorption/desorption processes using quartz crystal microbalance. Journal of Colloid and Interface Science, 2018, 519, 88-96.	5.0	30
13	Thin-Film Nanocomposite Membrane with the Minimum Amount of MOF by the Langmuirâ€“Schaefer Technique for Nanofiltration. ACS Applied Materials & Interfaces, 2018, 10, 1278-1287.	4.0	94
14	Thermodynamic behaviour of alkyl lactateâ€“alkanol systems. Journal of Chemical Thermodynamics, 2018, 127, 33-38.	1.0	5
15	Comparative Study of the Thermophysical Properties of 2-Ethylthiophene and 2-Ethylfuran. Journal of Chemical & Engineering Data, 2018, 63, 3274-3284.	1.0	5
16	A Porphyrin Spin Qubit and Its 2D Framework Nanosheets. Advanced Functional Materials, 2018, 28, 1801695.	7.8	72
17	Homogeneous thin coatings of zeolitic imidazolate frameworks prepared on quartz crystal sensors for CO2 adsorption. Microporous and Mesoporous Materials, 2018, 272, 44-52.	2.2	19
18	Thermophysical Characterization of Furfuryl Esters: Experimental and Modeling. Energy & Fuels, 2017, 31, 4143-4154.	2.5	6

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19	Ultrathin Composite Polymeric Membranes for CO₂/N₂ Separation with Minimum Thickness and High CO₂ Permeance. ChemSusChem, 2017, 10, 4014-4017.	3.6	36
20	How exfoliated graphene oxide nanosheets organize at the water interface: evidence for a spontaneous bilayer self-assembly. Nanoscale, 2017, 9, 12543-12548.	2.8	22
21	Thermophysical characterization of 1-ethylpyridinium triflate and comparison with similar ionic liquids. Journal of Chemical Thermodynamics, 2016, 103, 395-402.	1.0	15
22	Langmuirâ€“Blodgett Films of the Metalâ€“Organic Framework MIL-101(Cr): Preparation, Characterization, and CO₂ Adsorption Study Using a QCM-Based Setup. ACS Applied Materials & Interfaces, 2016, 8, 16486-16492.	4.0	49
23	Experimental and predicted vapourâ€“liquid equilibrium of the binary mixtures n-heptaneÂ+Âchlorobutane isomers. Fluid Phase Equilibria, 2016, 409, 72-77.	1.4	4
24	Fabrication of ultrathin films containing the metal organic framework Fe-MIL-88B-NH 2 by the Langmuirâ€“Blodgett technique. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 470, 161-170.	2.3	28
25	Metalâ€“organic framework based mixed matrix membranes: a solution for highly efficient CO₂ capture?. Chemical Society Reviews, 2015, 44, 2421-2454.	18.7	732
26	Excess properties from pĪ¶ data for n-heptane+isomeric chlorobutane mixtures. Thermochimica Acta, 2015, 614, 100-109.	1.2	4
27	Thermophysical study of the furan family. Thermochimica Acta, 2015, 617, 54-64.	1.2	27
28	Thermodynamic study of the surface of liquid mixtures containing pyridinium-based ionic liquids and alkanols. Journal of Chemical Thermodynamics, 2014, 78, 234-240.	1.0	16
29	Thermophysical Properties of the Binary Mixture 1-Propylpyridinium Tetrafluoroborate with Methanol. Journal of Chemical & Engineering Data, 2014, 59, 1564-1573.	1.0	23
30	Preparation of nascent molecular electronic devices from gold nanoparticles and terminal alkyne functionalised monolayer films. Journal of Materials Chemistry C, 2014, 2, 7348-7355.	2.7	36
31	Physicochemical Study of n-Ethylpyridinium bis(trifluoromethylsulfonyl)imide Ionic Liquid. Journal of Solution Chemistry, 2014, 43, 696-710.	0.6	37
32	Thermophysical properties of lactates. Thermochimica Acta, 2014, 575, 305-312.	1.2	36
33	Study of an ethylene oxide-terminated bentâ€“core compound: Synthesis and Langmuirâ€“Blodgett film structure. Journal of Colloid and Interface Science, 2013, 406, 60-68.	5.0	4
34	Thermophysical study of methyl levulinate. Journal of Chemical Thermodynamics, 2013, 65, 34-41.	1.0	35
35	Experimental and VTPR-predicted volumetric properties of branched hexanes. Fluid Phase Equilibria, 2013, 338, 141-147.	1.4	8
36	Ionic Conductivities of Binary Mixtures Containing Pyridinium-Based Ionic Liquids and Alkanols. Journal of Chemical & Engineering Data, 2013, 58, 1613-1620.	1.0	25

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37	Volumetric Study of the Mixtures n-Hexane + Isomeric Chlorobutane: Experimental Characterization and Volume Translated Pengâ€“Robinson Predictions. Journal of Physical Chemistry B, 2013, 117, 10284-10292.	1.2	6
38	Viscosimetric Study of Binary Mixtures Containing Pyridinium-Based Ionic Liquids and Alkanols. Journal of Chemical & Engineering Data, 2012, 57, 3549-3556.	1.0	26
39	Experimental and Theoretical Study of Two Pyridinium-Based Ionic Liquids. Journal of Solution Chemistry, 2012, 41, 1836-1852.	0.6	29
40	Volumetric Properties of Short-Chain Chloroalkanes. Journal of Chemical & Engineering Data, 2012, 57, 2076-2083.	1.0	8
41	Influence of the liquid crystal behaviour on the Langmuir and Langmuirâ€“Blodgett film supramolecular architecture of an ionic liquid crystal. Journal of Colloid and Interface Science, 2012, 375, 94-101.	5.0	4
42	Experimental and predicted properties of the binary mixtures containing an isomeric chlorobutane and butyl ethyl ether. Journal of Chemical Thermodynamics, 2012, 51, 150-158.	1.0	6
43	Simultaneous Prediction of Densities and Vaporâ€“Liquid Equilibria of Mixtures Containing an Isomeric Chlorobutane and Methyl tert-Butyl Ether Using the VTPR Model. Industrial & Engineering Chemistry Research, 2011, 50, 14193-14202.	1.8	4
44	Isothermal vapourâ€“liquid equilibria and excess enthalpies for the binary mixtures containing an isomeric chlorobutane and diisopropyl ether. Fluid Phase Equilibria, 2011, 308, 8-14.	1.4	6
45	Airâ€“water interfacial behavior of linear-dendritic block copolymers containing PEG and azobenzene chromophores. Journal of Colloid and Interface Science, 2011, 359, 389-398.	5.0	4
46	Study of the conductivity behavior of pyridinium-based ionic liquids. Electrochimica Acta, 2010, 55, 2252-2257.	2.6	68
47	Photochemical behaviour of an acid-terminated azopolymer in solution and in Langmuirâ€“Blodgett films. Current Applied Physics, 2010, 10, 874-879.	1.1	5
48	Surface Tensions of the Ternary Mixtures Containing an Isomeric Butanol + n-Hexane + 1-Chlorobutane at 298.15 K. Journal of Chemical & Engineering Data, 2010, 55, 3532-3537.	1.0	9
49	Isothermal Vaporâ^'Liquid Equilibrium of Ternary Mixtures Containing 2-Methyl-1-propanol or 2-Methyl-2-propanol, n-Hexane, and 1-Chlorobutane at 298.15 K. Journal of Chemical & Engineering Data, 2010, 55, 739-744.	1.0	3
50	Anion Influence on Thermophysical Properties of Ionic Liquids: 1-Butylpyridinium Tetrafluoroborate and 1-Butylpyridinium Triflate. Journal of Physical Chemistry B, 2010, 114, 3601-3607.	1.2	80
51	(Vapour+liquid) equilibrium and excess Gibbs functions of ternary mixtures containing 1-butanol or 2-butanol, n-hexane, and 1-chlorobutane at T=298.15K. Journal of Chemical Thermodynamics, 2009, 41, 1030-1034.	1.0	4
52	Molecular Arrangement in Langmuir and Langmuirâ^'Blodgett Films of a Mesogenic Bent-Core Carboxylic Acid. Langmuir, 2009, 25, 12332-12339.	1.6	13
53	Supramolecular Architecture in Langmuir Films of a Luminescent Ionic Liquid Crystal. Journal of Physical Chemistry C, 2009, 113, 18827-18834.	1.5	11
54	Refractive Indices of the Ternary Mixtures Butanol + n-Hexane + 1-Chlorobutane. Journal of Solution Chemistry, 2008, 37, 1499-1510.	0.6	13

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55	Structural characterization and properties of an azopolymer arranged in Langmuir and Langmuirâ€“Blodgett films. Journal of Colloid and Interface Science, 2008, 319, 277-286.	5.0	10
56	Densities and Viscosities of the Ternary Mixtures 2-Methyl-1-propanol (or 2-Methyl-2-propanol) + N-Hexane + 1-Chlorobutane at 298.15 K. Journal of Chemical & Engineering Data, 2008, 53, 1223-1227.	1.0	9
57	Physicochemical Characterization of n-Butyl-3-methylpyridinium Dicyanamide Ionic Liquid. Journal of Physical Chemistry B, 2008, 112, 12461-12467.	1.2	52
58	Spectroscopic Characterization and Langmuirâ^'Blodgett Films of a Novel Azopolymer Material. Langmuir, 2007, 23, 1804-1809.	1.6	12
59	Mixed Langmuir and Langmuirâ^'Blodgett Films of a Proton Sponge and a Fatty Acid:Â Influence of the Subphase Nature on the Interactions between the Two Components. Journal of Physical Chemistry B, 2007, 111, 2845-2855.	1.2	7
60	Phase Equilibrium of Binary Mixtures of Cyclic Ethers + Chlorobutane Isomers:â€‰ Experimental Measurements and SAFT-VR Modeling. Journal of Physical Chemistry B, 2007, 111, 9588-9597.	1.2	16
61	Isomerization Behavior of an Azopolymer in Terms of the Langmuirâ^'Blodgett Film Thickness and the Transference Surface Pressure. Macromolecules, 2007, 40, 2058-2069.	2.2	18
62	Thermodynamic properties of binary mixtures formed by cyclic ethers and chloroalkanes. Journal of Thermal Analysis and Calorimetry, 2007, 90, 587-595.	2.0	20
63	Electrochemical and photoelectrochemical response of electrodes coated with LB films of an azopolymer. Electrochimica Acta, 2007, 52, 5086-5094.	2.6	9
64	Densities and Viscosities of the Binary Mixtures of Tetrahydrofuran with Isomeric Chlorobutanes at 298.15 K and 313.15 K. Journal of Chemical & Engineering Data, 2006, 51, 1321-1325.	1.0	33
65	Speeds of Sound and Isentropic Compressibilities for Binary Mixtures of a Cyclic Diether with a Cyclic Compound at Three Temperatures. International Journal of Thermophysics, 2006, 27, 760-776.	1.0	14
66	Thermophysical Properties of Mixtures of Tetrahydropyran with Chlorobutanes. International Journal of Thermophysics, 2006, 27, 1406-1418.	1.0	19
67	Volumetric and refractive properties of binary mixtures containing 1,3-dioxolane and isomeric chlorobutanes. Journal of Thermal Analysis and Calorimetry, 2006, 83, 735-745.	2.0	32
68	Example of an organic reaction in a Langmuir film: Reduction of an amphiphilic ketone by NaBH4. Journal of Colloid and Interface Science, 2005, 289, 574-580.	5.0	1
69	Thermophysical properties of the binary mixtures of 2-methyl-tetrahydrofuran with benzene and halobenzenes. Thermochimica Acta, 2005, 439, 1-7.	1.2	26
70	Monolayers of Salen Derivatives as Catalytic Planes for Alkene Oxidation in Water. Chemistry - A European Journal, 2005, 11, 6032-6039.	1.7	11
71	Volumetric and acoustic properties of the ternary system (1-butanol+1,4-dioxane+cyclohexane). Journal of Thermal Analysis and Calorimetry, 2005, 79, 51-57.	2.0	10
72	Experimental data of isobaric vapourâ€“liquid equilibrium for binary mixtures containing tetrahydrofuran and isomeric chlorobutanes. Physics and Chemistry of Liquids, 2005, 43, 299-307.	0.4	14

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73	Surface Behavior of the 1-Bromobutane with Isomeric Butanol Mixtures. Journal of Physical Chemistry B, 2005, 109, 23096-23102.	1.2	26
74	Experimental and Predicted Viscosities of the Ternary Mixture (Hexane + 1,3-Dioxolane + 2-Butanol) at 298.15 and 313.15 K. Journal of Chemical & Engineering Data, 2005, 50, 722-726.	1.0	8
75	Formation of Gold Nanoparticles in a Side-Chain Liquid Crystalline Network:Â Influence of the Structure and Macroscopic Order of the Material. Chemistry of Materials, 2005, 17, 5228-5230.	3.2	26
76	Speeds of Sound and Isentropic Compressibilities of Binary Mixtures Containing Cyclic Ethers and Haloalkanes at 298.15 and 313.15 K. International Journal of Thermophysics, 2004, 25, 1735-1746.	1.0	42
77	A Catalytic Langmuir Film as a Model for Heterogeneous and Homogeneous Catalytic Processes. Angewandte Chemie - International Edition, 2004, 43, 6174-6177.	7.2	23
78	Excess molar volumes and enthalpies of the ternary system (2-butanol + 1,3-dioxolane + n-hexane) at 298.15 and 313.15K. Thermochimica Acta, 2004, 423, 49-55.	1.2	11
79	Excess properties of the ternary system (hexane + 1,3-dioxolane + 1-butanol) at 298.15 and 313.15 K. Fluid Phase Equilibria, 2003, 211, 61-73.	1.4	18
80	Viscosities of Binary Mixtures of Isomeric Butanols or Isomeric Chlorobutanes with 2-Methyltetrahydrofuran. Journal of Chemical & Engineering Data, 2003, 48, 1296-1300.	1.0	36
81	Vaporâ^'Liquid Equilibrium and Volumetric Measurements for Binary Mixtures of 1,4-Dioxane with Isomeric Chlorobutanes. Journal of Chemical & Engineering Data, 2003, 48, 887-891.	1.0	21
82	Experimental values and ERAS model calculations for excess molar volumes and enthalpies of the ternary system 2-butanol + 1,3-dioxolane + cyclohexane. Canadian Journal of Chemistry, 2003, 81, 357-363.	0.6	18
83	Densities and Speeds of Sound of the Ternary Mixture 2-Butanol Plus 1-Chlorobutane Plus Tetrahydrofuran. Physics and Chemistry of Liquids, 2003, 41, 239-247.	0.4	5
84	Isobaric Vapour-Liquid Equilibrium of Ternary Mixtures Cyclohexane (or n -Hexane) Plus 1,3-Dioxolane Plus 2-Butanol at 40.0 and 101.3 kPa. Physics and Chemistry of Liquids, 2003, 41, 1-13.	0.4	6
85	Electrochemistry of Langmuir-Blodgett Films Incorporating Both a Viologen Derivative and Tetracyanoquinodimethane. Journal of the Electrochemical Society, 2002, 149, E402.	1.3	7
86	Excess properties of the ternary system cyclohexane + 1,3-dioxolane + 1-butanol at 298.15 and 313.15 K. Fluid Phase Equilibria, 2002, 202, 385-397.	1.4	20
87	Isobaric vapourâ€"liquid equilibrium of binary and ternary mixtures containing cyclohexane, n-hexane, 1,3-dioxolane and 1-butanol at 40.0 and 101.3 kPa. Chemical Engineering Journal, 2002, 88, 1-9.	6.6	16
88	Excess molar enthalpies of 1,3-dioxolane, or 1,4-dioxane with isomeric butanols. Journal of Chemical Thermodynamics, 2002, 34, 1351-1360.	1.0	30
89	Title is missing!. International Journal of Thermophysics, 2002, 23, 1587-1598.	1.0	13
90	Density and Speed of Sound for Binary Mixtures of a Cyclic Ether with a Butanol Isomer. Journal of Solution Chemistry, 2002, 31, 905-915.	0.6	51

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91	Experimental and predicted viscosities of the binary system (n-hexane + 1,3-dioxolane) and for the ternary system (n-hexane + 1,3-dioxolane + 1-butanol) at 298.15 and 313.15 K. Fluid Phase Equilibria, 2001, 180, 211-220.	1.4	22
92	Isobaric (vapour + liquid) equilibrium of (1,3-dioxolane, or 1,4-dioxane+ 1-butanol, or 2-butanol) at 40.0 kPa and 101.3 kPa. Journal of Chemical Thermodynamics, 2001, 33, 1361-1373.	1.0	20
93	Densities of (2-butanol +n-hexane + 1-butylamine) atT= 298.15 andT= 313.15 K: excess and partial excess molar volumes and application of the ERAS model. Journal of Chemical Thermodynamics, 2000, 32, 1551-1568.	1.0	27
94	Isentropic compressibilities of the ternary mixture (cyclohexane + tetrahydrofuran +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (chlor	2.3	7
95	Viscosities of the ternary mixture (2-butanol+n-hexane+1-butylamine) at 298.15 and 313.15 K. Fluid Phase Equilibria, 2000, 169, 277-292.	1.4	44
96	Title is missing!. International Journal of Thermophysics, 2000, 21, 1185-1196.	1.0	8
97	Viscosities and Viscosity Predictions of the Ternary Mixture Cyclohexane + 1-3-Dioxolane + 1-Butanol at 298.15 and 313.15 K.. Journal of Chemical Engineering of Japan, 2000, 33, 740-746.	0.3	21
98	Experimental Viscosities and Viscosity Predictions of the Ternary Mixture (Cyclohexane +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (751-755.	1.0	48
99	Viscosities of the ternary mixture (cyclohexane+tetrahydrofuran+chlorocyclohexane) at 298.15 and 313.15 K. Fluid Phase Equilibria, 1999, 164, 143-155.	1.4	22