Federico Rossi

List of Publications by Year
in descending order

194	6,757	57758	85541
papers	citations	44 h-index	71 g-index

195	195	195	5287
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Formation rate as parameter to distinguish nucleation from hydrate massive growth phase: Experimental investigation in presence of two different porous media. Experimental Thermal and Fluid Science, 2022, 131, 110525.	2.7	11
2	In situ experimental study on the effect of mixed inhibitors on the phase equilibrium of carbon dioxide hydrate. Chemical Engineering Science, 2022, 248, 117230.	3.8	29
3	Inhibition of the urea-urease reaction by the components of the zeolite imidazole frameworks-8 and the formation of urease-zinc-imidazole hybrid compound. Reaction Kinetics, Mechanisms and Catalysis, 2022, 135, 15-28.	1.7	5
4	Formation and Dissociation of CH4 and CO2 Hydrates in Presence of a Sediment Composed by Pure Quartz Mixed with Ti23 Particles. Materials, 2022, 15, 1470.	2.9	4
5	Collective Behavior of Urease pH Clocks in Nano- and Microvesicles Controlled by Fast Ammonia Transport. Journal of Physical Chemistry Letters, 2022, 13, 1979-1984.	4.6	10
6	Influence of different proportion of CO2/N2 binary gas mixture on methane recovery through replacement processes in natural gas hydrates. Chemical Engineering and Processing: Process Intensification, 2022, 175, 108932.	3.6	10
7	Application of a chemical clock in material design: chemically programmed synthesis of zeolitic imidazole framework-8. Chemical Communications, 2022, 58, 5777-5780.	4.1	5
8	Experimental Characterization of Memory Effect, Anomalous Self-Preservation and Ice-Hydrate Competition, during Methane-Hydrates Formation and Dissociation in a Lab-Scale Apparatus. Sustainability, 2022, 14, 4807.	3.2	6
9	Glass beads retro-reflective coating for building application: albedo assessment in urban canyon configurations. Journal of Physics: Conference Series, 2022, 2177, 012033.	0.4	2
10	May sediments affect the inhibiting properties of NaCl on CH4 and CO2 hydrates formation? an experimental report. Journal of Molecular Liquids, 2022, 359, 119300.	4.9	12
11	Shape Deformation, Budding and Division of Giant Vesicles and Artificial Cells: A Review. Life, 2022, 12, 841.	2.4	11
12	Shape changes and budding of giant vesicles induced by an internal chemical trigger: an interplay between osmosis and pH change. Physical Chemistry Chemical Physics, 2021, 23, 4262-4270.	2.8	16
13	Observation of the Main Natural Parameters Influencing the Formation of Gas Hydrates. Energies, 2021, 14, 1803.	3.1	27
14	Life Cycle Assessment of an Innovative Technology against Late Frosts in Vineyard. Sustainability, 2021, 13, 5562.	3.2	1
15	Hydrate formation as a method for natural gas separation into single compounds: a brief analysis of the process potential. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	5
16	Thermodynamic phase equilibrium of single-guest hydrate and formation data of hydrate in presence of chemical additives: a review. Fluid Phase Equilibria, 2021, 536, 112958.	2.5	60
17	The Effect of the Substrate on the Optic Performance of Retro-Reflective Coatings: An In-Lab Investigation. Energies, 2021, 14, 2921.	3.1	8
18	Effect of the Membrane Composition of Giant Unilamellar Vesicles on Their Budding Probability: A Trade-Off between Elasticity and Preferred Area Difference. Life, 2021, 11, 634.	2.4	5

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19	Experimental investigation on the possibility of defining the feasibility of CO2/CH4 exchange into a natural gas hydrate marine reservoir via fast analysis of sediment properties. Chemical Engineering Research and Design, 2021, 171, 327-339.	5.6	24
20	Review on the characteristics and advantages related to the use of flue-gas as CO2/N2 mixture for gas hydrate production. Fluid Phase Equilibria, 2021, 541, 113077.	2.5	39
21	Effect of promoters on CO2 hydrate formation: thermodynamic assessment and microscale Raman spectroscopy/hydrate crystal morphology characterization analysis. Fluid Phase Equilibria, 2021, 550, 113218.	2.5	28
22	Methane and Carbon Dioxide Hydrate Formation and Dissociation in Presence of a Pure Quartz Porous Framework Impregnated with CuSn12 Metallic Powder: An Experimental Report. Materials, 2021, 14, 5115.	2.9	5
23	Interfacial Mass Transfer in Trichloroethylene/Surfactants/ Water Systems: Implications for Remediation Strategies. Reactions, 2021, 2, 312-322.	2.1	4
24	How methane release may affect carbon dioxide storage during replacement processes in natural gas hydrate reservoirs. Journal of Petroleum Science and Engineering, 2021, 205, 108895.	4.2	35
25	Kinetic considerations and formation rate for carbon dioxide hydrate, formed in presence of a natural silica-based porous medium: How initial thermodynamic conditions may modify the process kinetic. Thermochimica Acta, 2021, 705, 179039.	2.7	11
26	A selective Nile Red based solvatochromic probe: A study of fluorescence in LUVs and GUVs model membranes. Dyes and Pigments, 2021, 196, 109759.	3.7	6
27	Thermodynamic and kinetic characterization of methane hydrate â€˜nucleation, growth and dissociation processes, according to the labile Cluster theory. Chemical Engineering Journal, 2021, 425, 130706.	12.7	33
28	Synchronization scenarios induced by delayed communication in arrays of diffusively coupled autonomous chemical oscillators. Physical Chemistry Chemical Physics, 2021, 23, 17606-17615.	2.8	8
29	Influences of high-reflective mulching membrane coupled with a drip sub-irrigation system on temperature and humidity of the soil. E3S Web of Conferences, 2021, 312, 12006.	0.5	0
30	Injection of CO2/N2 gaseous mixtures into gas hydrates to contemporary perform CH4 recovery and CO2 storage. E3S Web of Conferences, 2021, 312, 08009.	0.5	0
31	Application of a completely organic and bio-degradable sugar-based insulating coating to vine shoots, to prevent late frost damages. E3S Web of Conferences, 2021, 312, 12001.	0.5	0
32	Methane and carbon dioxide hydrates properties in presence of Inconel 718 particles: Analyses on its potential application in gas separation processes to perform efficiency improvement. Journal of Environmental Chemical Engineering, 2021, 9, 106571.	6.7	28
33	Thermodynamic and Kinetic Description of the Main Effects Related to the Memory Effect during Carbon Dioxide Hydrates Formation in a Confined Environment. Sustainability, 2021, 13, 13797.	3.2	21
34	The role of grain size and inoculum amount on biocrust formation by Leptolyngbya ohadii. Catena, 2020, 184, 104248.	5.0	27
35	Development and validation of a Monte Carlo-based numerical model for solar analyses in urban canyon configurations. Building and Environment, 2020, 170, 106638.	6.9	12
36	Hofmeister Effect in Self-Organized Chemical Systems. Journal of Physical Chemistry B, 2020, 124, 9658-9667.	2.6	9

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37	A Flavone-Based Solvatochromic Probe with A Low Expected Perturbation Impact on the Membrane Physical State. Molecules, 2020, 25, 3458.	3.8	5
38	Outdoor thermal comfort improvements due to innovative solar awning solutions: An experimental campaign. Energy and Buildings, 2020, 225, 110341.	6.7	11
39	Microfluidic compartmentalization of diffusively coupled oscillators in multisomes induces a novel synchronization scenario. Chemical Communications, 2020, 56, 11771-11774.	4.1	7
40	Insulating Organic Material as a Protection System against Late Frost Damages on the Vine Shoots. Sustainability, 2020, 12, 6279.	3.2	3
41	The use of sodium chloride as strategy for improving CO2/CH4 replacement in natural gas hydrates promoted with depressurization methods. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	35
42	Effects of retro-reflective and angular-selective retro-reflective materials on solar energy in urban canyons. Solar Energy, 2020, 209, 662-673.	6.1	10
43	Water Salinity as Potential Aid for Improving the Carbon Dioxide Replacement Processâ€™ Effectiveness in Natural Gas Hydrate Reservoirs. Processes, 2020, 8, 1298.	2.8	38
44	Optic-energy and visual comfort analysis of retro-reflective building plasters. Building and Environment, 2020, 174, 106781.	6.9	20
45	Self-division of giant vesicles driven by an internal enzymatic reaction. Chemical Science, 2020, 11, 3228-3235.	7.4	63
46	Membrane Structure Drives Synchronization Patterns in Arrays of Diffusively Coupled Self-Oscillating Droplets. Journal of Physical Chemistry Letters, 2020, 11, 2014-2020.	4.6	22
47	Experimental analysis of the CO2/CH4 Replacement Efficiency due to Sodium Chloride Presence in Natural Gas Hydrates Reservoirs. E3S Web of Conferences, 2020, 197, 08008.	0.5	1
48	High-reflective Mulching Membrane for a Sustainable Development: Monitoring Campaign. E3S Web of Conferences, 2020, 197, 08012.	0.5	3
49	A NATURAL ORGANIC COATING TO CONTROL AND MINIMIZE LATE FROST DAMAGES ON WINE SHOOTS. Heat Transfer Research, 2020, 51, 1625-1635.	1.6	2
50	Exploiting selective angular properties of retro-reflective coatings to mitigate solar irradiation within the urban canyon. Solar Energy, 2019, 189, 74-85.	6.1	20
51	Optimization of the anaerobic denitrification process mediated by Bacillus cereus in a batch reactor. Environmental Technology and Innovation, 2019, 16, 100456.	6.1	7
52	Gas hydrate formation as a strategy for CH4/CO2 separation: Experimental study on gaseous mixtures produced via Sabatier reaction. Journal of Natural Gas Science and Engineering, 2019, 71, 102985.	4.4	38
53	Oxidative Degradation of Trichloroethylene over Fe2O3-doped Mayenite: Chlorine Poisoning Mitigation and Improved Catalytic Performance. Catalysts, 2019, 9, 747.	3.5	13
54	The role of the tyrosine kinase Wzc (Sll0923) and the phosphatase Wzb (Slr0328) in the production of extracellular polymeric substances (EPS) by Synechocystis PCC 6803. MicrobiologyOpen, 2019, 8, e00753.	3.0	26

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55	Influence of the synthesis method on the catalytic activity of mayenite for the oxidation of gas-phase trichloroethylene. Scientific Reports, 2019, 9, 425.	3.3	18
56	Natural gas hydrates: Comparison between two different applications of thermal stimulation for performing CO2 replacement. Energy, 2019, 172, 423-434.	8.8	66
57	The Relevance of Inorganic Nonlinear Chemical Reactions for the Origin of Life Studies. Communications in Computer and Information Science, 2019, , 138-150.	0.5	1
58	Multivariate statistical analysis of chemical and electrochemical oscillators for an accurate frequency selection. Physical Chemistry Chemical Physics, 2019, 21, 16423-16434.	2.8	11
59	A Novel Synthetic Route to Prepare High Surface Area Mayenite Catalyst for TCE Oxidation. Catalysts, 2019, 9, 27.	3.5	18
60	Energy and Environmental Analysis of Membrane-Based CH4-CO2 Replacement Processes in Natural Gas Hydrates. Energies, 2019, 12, 850.	3.1	32
61	Experimental study on natural gas hydrate exploitation: Optimization of methane recovery, carbon dioxide storage and deposit structure preservation. Journal of Petroleum Science and Engineering, 2019, 177, 594-601.	4.2	47
62	Trichloroethylene solubilization using a series of commercial biodegradable ethoxylated fatty alcohol surfactants. Journal of Chemical Technology and Biotechnology, 2019, 94, 3523-3529.	3.2	13
63	A normalization procedure to compare retro-reflective and traditional diffusive materials in terms of UHI mitigation potential. AIP Conference Proceedings, 2019, , .	0.4	5
64	Performance analysis of a small-size CAES system. AIP Conference Proceedings, 2019, , .	0.4	0
65	Exploring the water/oil/water interface of phospholipid stabilized double emulsions by micro-focusing synchrotron SAXS. RSC Advances, 2019, 9, 33429-33435.	3.6	5
66	The alternative sigma factor SigF is a key player in the control of secretion mechanisms in Synechocystis sp. PCC 6803. Environmental Microbiology, 2019, 21, 343-359.	3.8	29
67	Experiments on methane hydrates formation in seabed deposits and gas recovery adopting carbon dioxide replacement strategies. Applied Thermal Engineering, 2019, 148, 371-381.	6.0	83
68	Experimental assessment of the combined effect of retroreflective faÃ§ades and pavement in urban canyons. IOP Conference Series: Materials Science and Engineering, 2019, 609, 072004.	0.6	11
69	Controlling Chemical Chaos in the Belousov-Zhabotinsky Oscillator. Communications in Computer and Information Science, 2018, , 32-48.	0.5	0
70	Planning for cooler urban canyons: Comparative analysis of the influence of faÃ§ades reflective properties on urban canyon thermal behavior. Solar Energy, 2018, 162, 14-27.	6.1	32
71	A novel method to evaluate nutrient retention by biological soil crust exopolymeric matrix. Plant and Soil, 2018, 429, 53-64.	3.7	20
72	Carbon and energy footprint of the hydrate-based biogas upgrading process integrated with CO2 valorization. Science of the Total Environment, 2018, 615, 404-411.	8.0	47

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73	Complex role of the polymeric matrix in biological soil crusts. Plant and Soil, 2018, 429, 19-34.	3.7	116
74	Modelling Approach to Enzymatic pH Oscillators in Giant Lipid Vesicles. Lecture Notes in Bioengineering, 2018, , 63-74.	0.4	6
75	Development of the polysaccharidic matrix in biocrusts induced by a cyanobacterium inoculated in sand microcosms. Biology and Fertility of Soils, 2018, 54, 27-40.	4.3	72
76	Environmental Application of Extra-Framework Oxygen Anions in the Nano-Cages of Mayenite. Lecture Notes in Bioengineering, 2018, , 131-139.	0.4	5
77	Optimized retro-reflective tiles for exterior building element. Sustainable Cities and Society, 2018, 37, 146-153.	10.4	25
78	Current Directions in Synthetic Cell Research. Lecture Notes in Bioengineering, 2018, , 141-154.	0.4	3
79	Evaluation of albedo enhancement to mitigate impacts of urban heat island in Rome (Italy) using WRF meteorological model. Urban Climate, 2018, 24, 551-566.	5.7	87
80	Effects of aging on retro-reflective materials for building applications. Energy and Buildings, 2018, 179, 121-132.	6.7	30
81	Signal Transduction and Communication Through Model Membranes in Networks of Coupled Chemical Oscillators. Communications in Computer and Information Science, 2018, , 16-31.	0.5	2
82	Cyanobacteria Inoculation Improves Soil Stability and Fertility on Different Textured Soils: Gaining Insights for Applicability in Soil Restoration. Frontiers in Environmental Science, 2018, 6, .	3.3	159
83	Stochastic Numerical Models of Oscillatory Phenomena. Communications in Computer and Information Science, 2018, , 59-69.	0.5	0
84	Enhanced solubility of trichloroethylene (TCE) by a poly-oxyethylene alcohol as green surfactant. Environmental Technology and Innovation, 2018, 12, 72-79.	6.1	14
85	The potential of the cyanobacterium Leptolyngbya ohadii as inoculum for stabilizing bare sandy substrates. Soil Biology and Biochemistry, 2018, 127, 318-328.	8.8	61
86	Small-Scale Compressed Air Energy Storage Application for Renewable Energy Integration in a Listed Building. Energies, 2018, 11, 1921.	3.1	44
87	Adapted numerical modelling of the Belousovâ€“Zhabotinsky reaction. Journal of Mathematical Chemistry, 2018, 56, 2876-2897.	1.5	9
88	Flue gas treatment by power-to-gas integration for methane and ammonia synthesis â€“ Energy and environmental analysis. Energy Conversion and Management, 2018, 171, 626-634.	9.2	67
89	PROGRESS IN URBAN GREENERY MITIGATION SCIENCE â€“ ASSESSMENT METHODOLOGIES ADVANCED TECHNOLOGIES AND IMPACT ON CITIES. Journal of Civil Engineering and Management, 2018, 24, 638-671.	3.5	109
90	Optic-energy performance improvement of exterior paints for buildings. Energy and Buildings, 2017, 139, 690-701.	6.7	51

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91	Chemical communication and dynamics of droplet emulsions in networks of Belousovâ€“Zhabotinsky micro-oscillators produced by microfluidics. Lab on A Chip, 2017, 17, 1179-1189.	6.0	46
92	Polysaccharides from by-products of the Wonderful and Laffan pomegranate varieties: New insight into extraction and characterization. Food Chemistry, 2017, 235, 58-66.	8.2	39
93	Cyanobacterial inoculation (cyanobacterisation): Perspectives for the development of a standardized multifunctional technology for soil fertilization and desertification reversal. Earth-Science Reviews, 2017, 171, 28-43.	9.1	159
94	Tuning the Chemical Communication of Oscillating Microdroplets by Means of Membrane Composition. Journal of Physical Chemistry C, 2017, 121, 13256-13264.	3.1	26
95	Lipid-Stabilized Waterâ€“Oil Interfaces Studied by Microfocusing Small-Angle X-ray Scattering. Langmuir, 2017, 33, 9100-9105.	3.5	8
96	Development and characterization of retro-reflective colored tiles for advanced building skins. Energy and Buildings, 2017, 154, 513-522.	6.7	47
97	Experimental investigation and energy considerations on hydrate-based biogas upgrading with CO 2 valorization. Biomass and Bioenergy, 2017, 105, 364-372.	5.7	23
98	Control of chemical chaos through medium viscosity in a batch ferroin-catalysed Belousovâ€“Zhabotinsky reaction. Physical Chemistry Chemical Physics, 2017, 19, 32235-32241.	2.8	22
99	Use of Zea mays L. in phytoremediation of trichloroethylene. Environmental Science and Pollution Research, 2017, 24, 11053-11060.	5.3	39
100	Total oxidation of trichloroethylene over mayenite (Ca12Al14O33) catalyst. Applied Catalysis B: Environmental, 2017, 204, 167-172.	20.2	33
101	Experimental Investigation on CO2 Methanation Process for Solar Energy Storage Compared to CO2-Based Methanol Synthesis. Energies, 2017, 10, 855.	3.1	49
102	Experimental Analysis of the Effect of Geometry and FaÃ§ade Materials on Urban Districtâ€™s Equivalent Albedo. Sustainability, 2017, 9, 1245.	3.2	44
103	On the Employ of Time Series in the Numerical Treatment of Differential Equations Modeling Oscillatory Phenomena. Communications in Computer and Information Science, 2017, , 179-187.	0.5	3
104	Thermal Analysis of an Industrial Furnace. Energies, 2016, 9, 833.	3.1	15
105	The Impact of Albedo Increase to Mitigate the Urban Heat Island in Terni (Italy) Using the WRF Model. Sustainability, 2016, 8, 999.	3.2	89
106	Released polysaccharides (RPS) from Cyanothece sp. CCY 0110 as biosorbent for heavy metals bioremediation: interactions between metals and RPS binding sites. Applied Microbiology and Biotechnology, 2016, 100, 7765-7775.	3.6	72
107	Hydrogen production under salt stress conditions by a freshwater Rhodopseudomonas palustris strain. Applied Microbiology and Biotechnology, 2016, 100, 2917-2926.	3.6	26
108	From Microscopic Compartmentalization to Hydrodynamic Patterns: New Pathways for Information Transport. Communications in Computer and Information Science, 2016, , 171-183.	0.5	0

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109	Engineering Enzyme-Driven Dynamic Behaviour in Lipid Vesicles. Communications in Computer and Information Science, 2016, , 197-208.	0.5	9
110	Pollutants monitoring and air quality evaluation in a confined environment: The â€˜Majestyâ€™ of Ambrogio Lorenzetti in the St. Augustine Church in Siena (Italy). Atmospheric Pollution Research, 2016, 7, 754-761.	3.8	15
111	Pore characteristics in biological soil crusts are independent of extracellular polymeric substances. Soil Biology and Biochemistry, 2016, 103, 294-299.	8.8	21
112	Differentiation of microbial activity and functional diversity between various biocrust elements in a heterogeneous crustal community. Catena, 2016, 147, 138-145.	5.0	14
113	Simulation of CO2 storage and methane gas production from gas hydrates in a large scale laboratory reactor. Journal of Petroleum Science and Engineering, 2016, 147, 515-527.	4.2	58
114	Experimental evaluation of urban heat island mitigation potential of retro-reflective pavement in urban canyons. Energy and Buildings, 2016, 126, 340-352.	6.7	92
115	A carbon footprint and energy consumption assessment methodology for UHI-affected lighting systems in built areas. Energy and Buildings, 2016, 114, 96-103.	6.7	50
116	Electric Vehicles for Postal Service Equipped with a Kinetic Energy Recovery System. International Journal of Green Energy, 2015, 12, 485-492.	3.8	5
117	Determination of the trichloroethylene diffusion coefficient in water. AICHE Journal, 2015, 61, 3511-3515.	3.6	33
118	Hydrogen Production from Water by Photolysis, Sonolysis and Sonophotolysis with Solid Solutions of Rare Earth, Gallium and Indium Oxides as Heterogeneous Catalysts. Sustainability, 2015, 7, 9310-9325.	3.2	40
119	Nitrate Removal from Wastewater through Biological Denitrification with OGA 24 in a Batch Reactor. Water (Switzerland), 2015, 7, 51-62.	2.7	49
120	Experimental Investigation on the Effect of Phase Change Materials on Compressed Air Expansion in CAES Plants. Sustainability, 2015, 7, 9773-9786.	3.2	36
121	LOCAL CLIMATE CHANGE AND URBAN HEAT ISLAND MITIGATION TECHNIQUES â€“ THE STATE OF THE ART. Journal of Civil Engineering and Management, 2015, 22, 1-16.	3.5	326
122	Benefits and Challenges of Mechanical Spring Systems for Energy Storage Applications. Energy Procedia, 2015, 82, 805-810.	1.8	30
123	Differentiation of the characteristics of excreted extracellular polysaccharides reveals the heterogeneous primary succession of induced biological soil crusts. Journal of Applied Phycology, 2015, 27, 1935-1944.	2.8	23
124	Integrated improvement of occupants' comfort in urban areas during outdoor events. Building and Environment, 2015, 93, 285-292.	6.9	55
125	Antibiotic delivery by liposomes from prokaryotic microorganisms: Similia cum similis works better. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 94, 411-418.	4.3	25
126	Life Cycle Assessment of New Oxy-Fuels from Biodiesel-Derived Glycerol. Energies, 2015, 8, 1628-1643.	3.1	19

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127	A Novel Mechanism for in Situ Nucleation of Spirals Controlled by the Interplay between Phase Fronts and Reactionâ€“Diffusion Waves in an Oscillatory Medium. Journal of Physical Chemistry C, 2015, 119, 9411-9417.	3.1	22
128	Retroreflective faÃ§ades for urban heat island mitigation: Experimental investigation and energy evaluations. Applied Energy, 2015, 145, 8-20.	10.1	152
129	Role of Cyanobacterial Exopolysaccharides in Phototrophic Biofilms and in Complex Microbial Mats. Life, 2015, 5, 1218-1238.	2.4	291
130	An improved method for BTEX extraction from charcoal. Analytical Methods, 2015, 7, 4811-4815.	2.7	25
131	Interaction of the Belousovâ€“Zhabotinsky Reaction with Phospholipid Engineered Membranes. Journal of Physical Chemistry B, 2015, 119, 10224-10230.	2.6	29
132	Scanning Electrochemical Microscopy of Belousovâ€“Zhabotinsky Reaction: How Confined Oscillations Reveal Short Lived Radicals and Auto-Catalytic Species. Analytical Chemistry, 2015, 87, 9621-9630.	6.5	20
133	Microbial fixation of CO2 in water bodies and in drylands to combat climate change, soil loss and desertification. New Biotechnology, 2015, 32, 109-120.	4.4	59
134	Clathrate Hydrates for Thermal Energy Storage in Buildings: Overview of Proper Hydrate-Forming Compounds. Sustainability, 2014, 6, 6815-6829.	3.2	63
135	Comparative Analysis of Monitoring Devices for Particulate Content in Exhaust Gases. Sustainability, 2014, 6, 4287-4307.	3.2	36
136	An Innovative Configuration for CO2 Capture by High Temperature Fuel Cells. Sustainability, 2014, 6, 6687-6695.	3.2	5
137	Experimental investigations on scaled-up methane hydrate production with surfactant promotion: Energy considerations. Journal of Petroleum Science and Engineering, 2014, 120, 187-193.	4.2	40
138	Summer and Winter Effect of Innovative Cool Roof Tiles on the Dynamic Thermal Behavior of Buildings. Energies, 2014, 7, 2343-2361.	3.1	58
139	Albedo control as an effective strategy to tackle Global Warming: A case study. Applied Energy, 2014, 130, 641-647.	10.1	95
140	Microbial secreted exopolysaccharides affect the hydrological behavior of induced biological soil crusts in desert sandy soils. Soil Biology and Biochemistry, 2014, 68, 62-70.	8.8	199
141	Stable carbon isotope ratio in atmospheric CO2 collected by new diffusive devices. Environmental Science and Pollution Research, 2014, 21, 3182-3186.	5.3	26
142	Analysis of retro-reflective surfaces for urban heat island mitigation: A new analytical model. Applied Energy, 2014, 114, 621-631.	10.1	162
143	Hydrate-based removal of carbon dioxide and hydrogen sulphide from biogas mixtures: Experimental investigation and energy evaluations. Biomass and Bioenergy, 2014, 70, 330-338.	5.7	71
144	Chemical communication between liposomes encapsulating a chemical oscillatory reaction. Chemical Science, 2014, 5, 1854-1859.	7.4	71

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145	Functionalized Clay Microparticles as Catalysts for Chemical Oscillators. Journal of Physical Chemistry C, 2014, 118, 24389-24396.	3.1	10
146	Macromolecular and chemical features of the excreted extracellular polysaccharides in induced biological soil crusts of different ages. Soil Biology and Biochemistry, 2014, 78, 1-9.	8.8	89
147	Approaches to Molecular Communication Between Synthetic Compartments Based on Encapsulated Chemical Oscillators. Communications in Computer and Information Science, 2014, , 58-74.	0.5	8
148	Characterization of exopolysaccharides produced by seven biofilm-forming cyanobacterial strains for biotechnological applications. Journal of Applied Phycology, 2013, 25, 1697-1708.	2.8	64
149	Production and characterization of extracellular carbohydrate polymer from Cyanothece sp. CCY 0110. Carbohydrate Polymers, 2013, 92, 1408-1415.	10.2	89
150	Use of cyanobacterial polysaccharides to promote shrub performances in desert soils: a potential approach for the restoration of desertified areas. Biology and Fertility of Soils, 2013, 49, 143-152.	4.3	77
151	Shifting Species Interaction in Soil Microbial Community and Its Influence on Ecosystem Functions Modulating. Microbial Ecology, 2013, 65, 700-708.	2.8	28
152	An energy-balanced analytic model for urban heat canyons: comparison with experimental data. Advances in Building Energy Research, 2013, 7, 222-234.	2.3	47
153	Mayenite based supports for atmospheric NOx sampling. Atmospheric Environment, 2013, 79, 666-671.	4.1	22
154	Ethanol reforming for supplying molten carbonate fuel cells. International Journal of Low-Carbon Technologies, 2013, 8, 140-145.	2.6	22
155	Use of Molten Carbonate Fuel Cell for CO₂ Capture. ECS Transactions, 2012, 42, 43-47.	0.5	4
156	Noise Assessment of Bioethanol Fuelled Hybrid and Electric Postal Vehicles Equipped With a Kinetic Energy Recovery System. , 2012, , .		1
157	Characteristics and role of the exocellular polysaccharides produced by five cyanobacteria isolated from phototrophic biofilms growing on stone monuments. Biofouling, 2012, 28, 215-224.	2.2	104
158	An experimental investigation to improve the hydrogen production by water photoelectrolysis when cyanin-chloride is used as sensibilizer. Applied Energy, 2012, 97, 763-770.	10.1	30
159	Segmented waves in a reaction-diffusion-convection system. Chaos, 2012, 22, 037109.	2.5	40
160	Investigation on a novel reactor for gas hydrate production. Applied Energy, 2012, 99, 167-172.	10.1	115
161	The role of the exopolysaccharides in enhancing hydraulic conductivity of biological soil crusts. Soil Biology and Biochemistry, 2012, 46, 33-40.	8.8	148
162	Control of spontaneous spiral formation in a zwitterionic micellar medium. Soft Matter, 2011, 7, 9498.	2.7	9

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163	Experimental Investigation on a Novel Electrolyte Configuration for Cylindrical Molten Carbonate Fuel Cells. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	22
164	Pentanary Crossâ€Diffusion in Waterâ€inâ€Oil Microemulsions Loaded with Two Components of the Belousovâ€“Zhabotinsky Reaction. Chemistry - A European Journal, 2011, 17, 2138-2145.	3.3	34
165	Hydrogen production from biological systems under different illumination conditions. International Journal of Hydrogen Energy, 2011, 36, 7479-7486.	7.1	2
166	Noise prediction models for gondola ropeway components. Noise Control Engineering Journal, 2011, 59, 415.	0.3	0
167	Evaluation and Optimization of an Innovative Low-Cost Photovoltaic Solar Concentrator. International Journal of Photoenergy, 2011, 2011, 1-10.	2.5	22
168	Psychoacoustic analysis of squeaking and rattling noises inside vehicle cabins. Noise Control Engineering Journal, 2010, 58, 441.	0.3	2
169	Structural and photophysical characterization of some La2xGa2yIn2zO3 solid solutions, to be used as photocatalysts for H2 production from water/ethanol solutions. Solar Energy Materials and Solar Cells, 2010, 94, 2265-2274.	6.2	19
170	Role of the reagents consumption in the chaotic dynamics of the Belousovâ€“Zhabotinsky oscillator in closed unstirred reactors. Physical Chemistry Chemical Physics, 2010, 12, 11062.	2.8	25
171	Quaternary Cross-Diffusion in Water-in-Oil Microemulsions Loaded with a Component of the Belousovâ^'Zhabotinsky Reaction. Journal of Physical Chemistry B, 2010, 114, 8140-8146.	2.6	28
172	Electromagnetic Transient Effects on Thermal Field for Plane Electrical Conductors. IEEE Transactions on Power Delivery, 2010, 25, 442-447.	4.3	0
173	Oscillatory dynamics of the Belousovâ€“Zhabotinsky system in the presence of a self-assembling nonionic polymer. Role of the reactants concentration. Physical Chemistry Chemical Physics, 2010, 12, 11674.	2.8	24
174	Chemical self-organization in self-assembling biomimetic systems. Ecological Modelling, 2009, 220, 1857-1864.	2.5	26
175	Synergistic effects in hydrogen production through water sonophotolysis catalyzed by new La2xGa2yIn2(1â^'xâ^'y)O3 solid solutions. International Journal of Hydrogen Energy, 2009, 34, 9042-9049.	7.1	38
176	Comparison of hydrogen hydrates with existing hydrogen storage technologies: Energetic and economic evaluations. International Journal of Hydrogen Energy, 2009, 34, 9173-9180.	7.1	98
177	Spatial recurrence strategies reveal different routes to Turing pattern formation in chemical systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 4266-4272.	2.1	13
178	The effect of N-tetradecyl-N,N-dimethylamine oxide micelles on the kinetics of the electron transfer reaction of Ce(IV) with substituted malonic acids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 351, 60-64.	4.7	6
179	Deuterium isotope effect on the induction period of the cerium catalyzed Belousovâ€“Zhabotinsky reaction. Chemical Physics Letters, 2009, 470, 147-150.	2.6	6
180	Chaotic dynamics in an unstirred ferroin catalyzed Belousovâ€“Zhabotinsky reaction. Chemical Physics Letters, 2009, 480, 322-326.	2.6	28

#	Article	IF	Citations
181	Dynamics of pattern formation in biomimetic systems. Journal of Theoretical Biology, 2008, 255, 404-412.	1.7	42
182	New features in the dynamics of a ferroin-catalyzed Belousovâ€“Zhabotinsky reaction induced by a zwitterionic surfactant. Chemical Physics Letters, 2008, 463, 378-382.	2.6	28
183	Cross-Diffusion in a Water-in-Oil Microemulsion Loaded with Malonic Acid or Ferroin. Taylor Dispersion Method for Four-Component Systems. Journal of Physical Chemistry B, 2008, 112, 9058-9070.	2.6	37
184	Spatio-Temporal Perturbation of the Dynamics of the Ferroin Catalyzed Belousovâ^'Zhabotinsky Reaction in a Batch Reactor Caused by Sodium Dodecyl Sulfate Micelles. Journal of Physical Chemistry B, 2008, 112, 7244-7250.	2.6	31
185	Small Size Cylindrical Molten Carbonate Fuel Cells and Future Approaches for Decreasing Working Temperature. ECS Transactions, 2008, 12, 455-466.	0.5	10
186	Isotopic Effect on the Kinetics of the Belousov-Zhabotinsky Reaction. International Journal of Molecular Sciences, 2007, 8, 943-949.	4.1	11
187	Effects of the electrolytes in a closed unstirred Belousovâ€“Zhabotinsky medium. Chemical Physics, 2005, 313, 101-106.	1.9	11
188	Chemical Waves and Pattern Formation in the 1,2-Dipalmitoyl-sn-glycero-3-phosphocholine/Water Lamellar System. Journal of the American Chemical Society, 2004, 126, 11406-11407.	13.7	42
189	A New Geometry High Performance Small Power MCFC. Journal of Fuel Cell Science and Technology, 2004, 1, 25-29.	0.8	22
190	A simple model to predict train-induced vibration: theoretical formulation and experimental validation. Environmental Impact Assessment Review, 2003, 23, 305-322.	9.2	17
191	Experimental determination of the thermophysical properties of Water-Xylitol mixtures. Experimental Thermal and Fluid Science, 1993, 7, 80-86.	2.7	1
192	Energetic Analysis of Solar-Supplied Processes for Methane, Biogas and Wood Chip Production. Advanced Materials Research, 0, 772, 720-724.	0.3	1
193	A Brief Overview of Lab - Scale Apparatuses Used in the Recent Years for Experimental Investigations on Gas Hydrates. Key Engineering Materials, 0, 876, 57-66.	0.4	1
194	The use of multivariate analysis in the control of the morphological period of (electro)chemical oscillators. , 0, , .		0