

Federico Rossi

List of Publications by Year in descending order

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papers

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57758

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times ranked

5287
citing authors

#	ARTICLE	IF	CITATIONS
1	LOCAL CLIMATE CHANGE AND URBAN HEAT ISLAND MITIGATION TECHNIQUES – THE STATE OF THE ART. <i>Journal of Civil Engineering and Management</i> , 2015, 22, 1-16.	3.5	326
2	Role of Cyanobacterial Exopolysaccharides in Phototrophic Biofilms and in Complex Microbial Mats. <i>Life</i> , 2015, 5, 1218-1238.	2.4	291
3	Microbial secreted exopolysaccharides affect the hydrological behavior of induced biological soil crusts in desert sandy soils. <i>Soil Biology and Biochemistry</i> , 2014, 68, 62-70.	8.8	199
4	Analysis of retro-reflective surfaces for urban heat island mitigation: A new analytical model. <i>Applied Energy</i> , 2014, 114, 621-631.	10.1	162
5	Cyanobacterial inoculation (cyanobacterisation): Perspectives for the development of a standardized multifunctional technology for soil fertilization and desertification reversal. <i>Earth-Science Reviews</i> , 2017, 171, 28-43.	9.1	159
6	Cyanobacteria Inoculation Improves Soil Stability and Fertility on Different Textured Soils: Gaining Insights for Applicability in Soil Restoration. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	159
7	Retroreflective façades for urban heat island mitigation: Experimental investigation and energy evaluations. <i>Applied Energy</i> , 2015, 145, 8-20.	10.1	152
8	The role of the exopolysaccharides in enhancing hydraulic conductivity of biological soil crusts. <i>Soil Biology and Biochemistry</i> , 2012, 46, 33-40.	8.8	148
9	Complex role of the polymeric matrix in biological soil crusts. <i>Plant and Soil</i> , 2018, 429, 19-34.	3.7	116
10	Investigation on a novel reactor for gas hydrate production. <i>Applied Energy</i> , 2012, 99, 167-172.	10.1	115
11	PROGRESS IN URBAN GREENERY MITIGATION SCIENCE – ASSESSMENT METHODOLOGIES ADVANCED TECHNOLOGIES AND IMPACT ON CITIES. <i>Journal of Civil Engineering and Management</i> , 2018, 24, 638-671.	3.5	109
12	Characteristics and role of the exocellular polysaccharides produced by five cyanobacteria isolated from phototrophic biofilms growing on stone monuments. <i>Biofouling</i> , 2012, 28, 215-224.	2.2	104
13	Comparison of hydrogen hydrates with existing hydrogen storage technologies: Energetic and economic evaluations. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9173-9180.	7.1	98
14	Albedo control as an effective strategy to tackle Global Warming: A case study. <i>Applied Energy</i> , 2014, 130, 641-647.	10.1	95
15	Experimental evaluation of urban heat island mitigation potential of retro-reflective pavement in urban canyons. <i>Energy and Buildings</i> , 2016, 126, 340-352.	6.7	92
16	Production and characterization of extracellular carbohydrate polymer from <i>Cyanospora</i> sp. CCY 0110. <i>Carbohydrate Polymers</i> , 2013, 92, 1408-1415.	10.2	89
17	Macromolecular and chemical features of the excreted extracellular polysaccharides in induced biological soil crusts of different ages. <i>Soil Biology and Biochemistry</i> , 2014, 78, 1-9.	8.8	89
18	The Impact of Albedo Increase to Mitigate the Urban Heat Island in Terni (Italy) Using the WRF Model. <i>Sustainability</i> , 2016, 8, 999.	3.2	89

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19	Evaluation of albedo enhancement to mitigate impacts of urban heat island in Rome (Italy) using WRF meteorological model. <i>Urban Climate</i> , 2018, 24, 551-566.	5.7	87
20	Experiments on methane hydrates formation in seabed deposits and gas recovery adopting carbon dioxide replacement strategies. <i>Applied Thermal Engineering</i> , 2019, 148, 371-381.	6.0	83
21	Use of cyanobacterial polysaccharides to promote shrub performances in desert soils: a potential approach for the restoration of desertified areas. <i>Biology and Fertility of Soils</i> , 2013, 49, 143-152.	4.3	77
22	Released polysaccharides (RPS) from <i>Cyanothece</i> sp. CCY 0110 as biosorbent for heavy metals bioremediation: interactions between metals and RPS binding sites. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7765-7775.	3.6	72
23	Development of the polysaccharidic matrix in biocrusts induced by a cyanobacterium inoculated in sand microcosms. <i>Biology and Fertility of Soils</i> , 2018, 54, 27-40.	4.3	72
24	Hydrate-based removal of carbon dioxide and hydrogen sulphide from biogas mixtures: Experimental investigation and energy evaluations. <i>Biomass and Bioenergy</i> , 2014, 70, 330-338.	5.7	71
25	Chemical communication between liposomes encapsulating a chemical oscillatory reaction. <i>Chemical Science</i> , 2014, 5, 1854-1859.	7.4	71
26	Flue gas treatment by power-to-gas integration for methane and ammonia synthesis – Energy and environmental analysis. <i>Energy Conversion and Management</i> , 2018, 171, 626-634.	9.2	67
27	Natural gas hydrates: Comparison between two different applications of thermal stimulation for performing CO ₂ replacement. <i>Energy</i> , 2019, 172, 423-434.	8.8	66
28	Characterization of exopolysaccharides produced by seven biofilm-forming cyanobacterial strains for biotechnological applications. <i>Journal of Applied Phycology</i> , 2013, 25, 1697-1708.	2.8	64
29	Clathrate Hydrates for Thermal Energy Storage in Buildings: Overview of Proper Hydrate-Forming Compounds. <i>Sustainability</i> , 2014, 6, 6815-6829.	3.2	63
30	Self-division of giant vesicles driven by an internal enzymatic reaction. <i>Chemical Science</i> , 2020, 11, 3228-3235.	7.4	63
31	The potential of the cyanobacterium <i>Leptolyngbya ohadii</i> as inoculum for stabilizing bare sandy substrates. <i>Soil Biology and Biochemistry</i> , 2018, 127, 318-328.	8.8	61
32	Thermodynamic phase equilibrium of single-guest hydrate and formation data of hydrate in presence of chemical additives: a review. <i>Fluid Phase Equilibria</i> , 2021, 536, 112958.	2.5	60
33	Microbial fixation of CO ₂ in water bodies and in drylands to combat climate change, soil loss and desertification. <i>New Biotechnology</i> , 2015, 32, 109-120.	4.4	59
34	Summer and Winter Effect of Innovative Cool Roof Tiles on the Dynamic Thermal Behavior of Buildings. <i>Energies</i> , 2014, 7, 2343-2361.	3.1	58
35	Simulation of CO ₂ storage and methane gas production from gas hydrates in a large scale laboratory reactor. <i>Journal of Petroleum Science and Engineering</i> , 2016, 147, 515-527.	4.2	58
36	Integrated improvement of occupants' comfort in urban areas during outdoor events. <i>Building and Environment</i> , 2015, 93, 285-292.	6.9	55

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37	Optic-energy performance improvement of exterior paints for buildings. <i>Energy and Buildings</i> , 2017, 139, 690-701.	6.7	51
38	A carbon footprint and energy consumption assessment methodology for UHI-affected lighting systems in built areas. <i>Energy and Buildings</i> , 2016, 114, 96-103.	6.7	50
39	Nitrate Removal from Wastewater through Biological Denitrification with OGA 24 in a Batch Reactor. <i>Water (Switzerland)</i> , 2015, 7, 51-62.	2.7	49
40	Experimental Investigation on CO ₂ Methanation Process for Solar Energy Storage Compared to CO ₂ -Based Methanol Synthesis. <i>Energies</i> , 2017, 10, 855.	3.1	49
41	An energy-balanced analytic model for urban heat canyons: comparison with experimental data. <i>Advances in Building Energy Research</i> , 2013, 7, 222-234.	2.3	47
42	Development and characterization of retro-reflective colored tiles for advanced building skins. <i>Energy and Buildings</i> , 2017, 154, 513-522.	6.7	47
43	Carbon and energy footprint of the hydrate-based biogas upgrading process integrated with CO ₂ valorization. <i>Science of the Total Environment</i> , 2018, 615, 404-411.	8.0	47
44	Experimental study on natural gas hydrate exploitation: Optimization of methane recovery, carbon dioxide storage and deposit structure preservation. <i>Journal of Petroleum Science and Engineering</i> , 2019, 177, 594-601.	4.2	47
45	Chemical communication and dynamics of droplet emulsions in networks of Belousov-Zhabotinsky micro-oscillators produced by microfluidics. <i>Lab on A Chip</i> , 2017, 17, 1179-1189.	6.0	46
46	Experimental Analysis of the Effect of Geometry and Façade Materials on Urban District's Equivalent Albedo. <i>Sustainability</i> , 2017, 9, 1245.	3.2	44
47	Small-Scale Compressed Air Energy Storage Application for Renewable Energy Integration in a Listed Building. <i>Energies</i> , 2018, 11, 1921.	3.1	44
48	Chemical Waves and Pattern Formation in the 1,2-Dipalmitoyl-sn-glycero-3-phosphocholine/Water Lamellar System. <i>Journal of the American Chemical Society</i> , 2004, 126, 11406-11407.	13.7	42
49	Dynamics of pattern formation in biomimetic systems. <i>Journal of Theoretical Biology</i> , 2008, 255, 404-412.	1.7	42
50	Segmented waves in a reaction-diffusion-convection system. <i>Chaos</i> , 2012, 22, 037109.	2.5	40
51	Experimental investigations on scaled-up methane hydrate production with surfactant promotion: Energy considerations. <i>Journal of Petroleum Science and Engineering</i> , 2014, 120, 187-193.	4.2	40
52	Hydrogen Production from Water by Photolysis, Sonolysis and Sonophotolysis with Solid Solutions of Rare Earth, Gallium and Indium Oxides as Heterogeneous Catalysts. <i>Sustainability</i> , 2015, 7, 9310-9325.	3.2	40
53	Polysaccharides from by-products of the Wonderful and Laffan pomegranate varieties: New insight into extraction and characterization. <i>Food Chemistry</i> , 2017, 235, 58-66.	8.2	39
54	Use of <i>Zea mays</i> L. in phytoremediation of trichloroethylene. <i>Environmental Science and Pollution Research</i> , 2017, 24, 11053-11060.	5.3	39

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55	Review on the characteristics and advantages related to the use of flue-gas as CO ₂ /N ₂ mixture for gas hydrate production. <i>Fluid Phase Equilibria</i> , 2021, 541, 113077.	2.5	39
56	Synergistic effects in hydrogen production through water sonophotolysis catalyzed by new La ₂ xGa ₂ yIn ₂ (1-x-y)O ₃ solid solutions. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9042-9049.	7.1	38
57	Gas hydrate formation as a strategy for CH ₄ /CO ₂ separation: Experimental study on gaseous mixtures produced via Sabatier reaction. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 71, 102985.	4.4	38
58	Water Salinity as Potential Aid for Improving the Carbon Dioxide Replacement Process™ Effectiveness in Natural Gas Hydrate Reservoirs. <i>Processes</i> , 2020, 8, 1298.	2.8	38
59	Cross-Diffusion in a Water-in-Oil Microemulsion Loaded with Malonic Acid or Ferroun. Taylor Dispersion Method for Four-Component Systems. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9058-9070.	2.6	37
60	Comparative Analysis of Monitoring Devices for Particulate Content in Exhaust Gases. <i>Sustainability</i> , 2014, 6, 4287-4307.	3.2	36
61	Experimental Investigation on the Effect of Phase Change Materials on Compressed Air Expansion in CAES Plants. <i>Sustainability</i> , 2015, 7, 9773-9786.	3.2	36
62	The use of sodium chloride as strategy for improving CO ₂ /CH ₄ replacement in natural gas hydrates promoted with depressurization methods. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	1.3	35
63	How methane release may affect carbon dioxide storage during replacement processes in natural gas hydrate reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108895.	4.2	35
64	Pentary Cross-Diffusion in Water-in-Oil Microemulsions Loaded with Two Components of the Belousov-Zhabotinsky Reaction. <i>Chemistry - A European Journal</i> , 2011, 17, 2138-2145.	3.3	34
65	Determination of the trichloroethylene diffusion coefficient in water. <i>AIChE Journal</i> , 2015, 61, 3511-3515.	3.6	33
66	Total oxidation of trichloroethylene over mayenite (Ca ₁₂ Al ₁₄ O ₃₃) catalyst. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 167-172.	20.2	33
67	Thermodynamic and kinetic characterization of methane hydrate nucleation, growth and dissociation processes, according to the labile Cluster theory. <i>Chemical Engineering Journal</i> , 2021, 425, 130706.	12.7	33
68	Planning for cooler urban canyons: Comparative analysis of the influence of façades reflective properties on urban canyon thermal behavior. <i>Solar Energy</i> , 2018, 162, 14-27.	6.1	32
69	Energy and Environmental Analysis of Membrane-Based CH ₄ -CO ₂ Replacement Processes in Natural Gas Hydrates. <i>Energies</i> , 2019, 12, 850.	3.1	32
70	Spatio-Temporal Perturbation of the Dynamics of the Ferroun Catalyzed Belousov-Zhabotinsky Reaction in a Batch Reactor Caused by Sodium Dodecyl Sulfate Micelles. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7244-7250.	2.6	31
71	An experimental investigation to improve the hydrogen production by water photoelectrolysis when cyanin-chloride is used as sensitizer. <i>Applied Energy</i> , 2012, 97, 763-770.	10.1	30
72	Benefits and Challenges of Mechanical Spring Systems for Energy Storage Applications. <i>Energy Procedia</i> , 2015, 82, 805-810.	1.8	30

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73	Effects of aging on retro-reflective materials for building applications. <i>Energy and Buildings</i> , 2018, 179, 121-132.	6.7	30
74	Interaction of the Belousovâ€“Zhabotinsky Reaction with Phospholipid Engineered Membranes. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10224-10230.	2.6	29
75	The alternative sigma factor SigF is a key player in the control of secretion mechanisms in <i>Synechocystis</i> sp. PCC 6803. <i>Environmental Microbiology</i> , 2019, 21, 343-359.	3.8	29
76	In situ experimental study on the effect of mixed inhibitors on the phase equilibrium of carbon dioxide hydrate. <i>Chemical Engineering Science</i> , 2022, 248, 117230.	3.8	29
77	New features in the dynamics of a ferroin-catalyzed Belousovâ€“Zhabotinsky reaction induced by a zwitterionic surfactant. <i>Chemical Physics Letters</i> , 2008, 463, 378-382.	2.6	28
78	Chaotic dynamics in an unstirred ferroin catalyzed Belousovâ€“Zhabotinsky reaction. <i>Chemical Physics Letters</i> , 2009, 480, 322-326.	2.6	28
79	Quaternary Cross-Diffusion in Water-in-Oil Microemulsions Loaded with a Component of the Belousovâ€“Zhabotinsky Reaction. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8140-8146.	2.6	28
80	Shifting Species Interaction in Soil Microbial Community and Its Influence on Ecosystem Functions Modulating. <i>Microbial Ecology</i> , 2013, 65, 700-708.	2.8	28
81	Effect of promoters on CO ₂ hydrate formation: thermodynamic assessment and microscale Raman spectroscopy/hydrate crystal morphology characterization analysis. <i>Fluid Phase Equilibria</i> , 2021, 550, 113218.	2.5	28
82	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. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106571.	6.7	28
83	The role of grain size and inoculum amount on biocrust formation by <i>Leptolyngbya ohadii</i> . <i>Catena</i> , 2020, 184, 104248.	5.0	27
84	Observation of the Main Natural Parameters Influencing the Formation of Gas Hydrates. <i>Energies</i> , 2021, 14, 1803.	3.1	27
85	Chemical self-organization in self-assembling biomimetic systems. <i>Ecological Modelling</i> , 2009, 220, 1857-1864.	2.5	26
86	Stable carbon isotope ratio in atmospheric CO ₂ collected by new diffusive devices. <i>Environmental Science and Pollution Research</i> , 2014, 21, 3182-3186.	5.3	26
87	Hydrogen production under salt stress conditions by a freshwater <i>Rhodospseudomonas palustris</i> strain. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 2917-2926.	3.6	26
88	Tuning the Chemical Communication of Oscillating Microdroplets by Means of Membrane Composition. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13256-13264.	3.1	26
89	The role of the tyrosine kinase <i>Wzc</i> (SlI0923) and the phosphatase <i>Wzb</i> (Slr0328) in the production of extracellular polymeric substances (EPS) by <i>Synechocystis</i> PCC 6803. <i>MicrobiologyOpen</i> , 2019, 8, e00753.	3.0	26
90	Role of the reagents consumption in the chaotic dynamics of the Belousovâ€“Zhabotinsky oscillator in closed unstirred reactors. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11062.	2.8	25

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91	Antibiotic delivery by liposomes from prokaryotic microorganisms: Similia cum similis works better. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 94, 411-418.	4.3	25
92	An improved method for BTEX extraction from charcoal. <i>Analytical Methods</i> , 2015, 7, 4811-4815.	2.7	25
93	Optimized retro-reflective tiles for exterior building element. <i>Sustainable Cities and Society</i> , 2018, 37, 146-153.	10.4	25
94	Oscillatory dynamics of the Belousovâ€Zhabotinsky system in the presence of a self-assembling nonionic polymer. Role of the reactants concentration. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11674.	2.8	24
95	Experimental investigation on the possibility of defining the feasibility of CO ₂ /CH ₄ exchange into a natural gas hydrate marine reservoir via fast analysis of sediment properties. <i>Chemical Engineering Research and Design</i> , 2021, 171, 327-339.	5.6	24
96	Differentiation of the characteristics of excreted extracellular polysaccharides reveals the heterogeneous primary succession of induced biological soil crusts. <i>Journal of Applied Phycology</i> , 2015, 27, 1935-1944.	2.8	23
97	Experimental investigation and energy considerations on hydrate-based biogas upgrading with CO ₂ valorization. <i>Biomass and Bioenergy</i> , 2017, 105, 364-372.	5.7	23
98	A New Geometry High Performance Small Power MCFC. <i>Journal of Fuel Cell Science and Technology</i> , 2004, 1, 25-29.	0.8	22
99	Experimental Investigation on a Novel Electrolyte Configuration for Cylindrical Molten Carbonate Fuel Cells. <i>Journal of Fuel Cell Science and Technology</i> , 2011, 8, .	0.8	22
100	Evaluation and Optimization of an Innovative Low-Cost Photovoltaic Solar Concentrator. <i>International Journal of Photoenergy</i> , 2011, 2011, 1-10.	2.5	22
101	Mayenite based supports for atmospheric NO _x sampling. <i>Atmospheric Environment</i> , 2013, 79, 666-671.	4.1	22
102	Ethanol reforming for supplying molten carbonate fuel cells. <i>International Journal of Low-Carbon Technologies</i> , 2013, 8, 140-145.	2.6	22
103	A Novel Mechanism for in Situ Nucleation of Spirals Controlled by the Interplay between Phase Fronts and Reactionâ€Diffusion Waves in an Oscillatory Medium. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9411-9417.	3.1	22
104	Control of chemical chaos through medium viscosity in a batch ferroin-catalysed Belousovâ€Zhabotinsky reaction. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 32235-32241.	2.8	22
105	Membrane Structure Drives Synchronization Patterns in Arrays of Diffusively Coupled Self-Oscillating Droplets. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2014-2020.	4.6	22
106	Pore characteristics in biological soil crusts are independent of extracellular polymeric substances. <i>Soil Biology and Biochemistry</i> , 2016, 103, 294-299.	8.8	21
107	Thermodynamic and Kinetic Description of the Main Effects Related to the Memory Effect during Carbon Dioxide Hydrates Formation in a Confined Environment. <i>Sustainability</i> , 2021, 13, 13797.	3.2	21
108	Scanning Electrochemical Microscopy of Belousovâ€Zhabotinsky Reaction: How Confined Oscillations Reveal Short Lived Radicals and Auto-Catalytic Species. <i>Analytical Chemistry</i> , 2015, 87, 9621-9630.	6.5	20

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109	A novel method to evaluate nutrient retention by biological soil crust exopolymeric matrix. <i>Plant and Soil</i> , 2018, 429, 53-64.	3.7	20
110	Exploiting selective angular properties of retro-reflective coatings to mitigate solar irradiation within the urban canyon. <i>Solar Energy</i> , 2019, 189, 74-85.	6.1	20
111	Optic-energy and visual comfort analysis of retro-reflective building plasters. <i>Building and Environment</i> , 2020, 174, 106781.	6.9	20
112	Structural and photophysical characterization of some La ₂ xGa ₂ ln ₂ zO ₃ solid solutions, to be used as photocatalysts for H ₂ production from water/ethanol solutions. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 2265-2274.	6.2	19
113	Life Cycle Assessment of New Oxy-Fuels from Biodiesel-Derived Glycerol. <i>Energies</i> , 2015, 8, 1628-1643.	3.1	19
114	Influence of the synthesis method on the catalytic activity of mayenite for the oxidation of gas-phase trichloroethylene. <i>Scientific Reports</i> , 2019, 9, 425.	3.3	18
115	A Novel Synthetic Route to Prepare High Surface Area Mayenite Catalyst for TCE Oxidation. <i>Catalysts</i> , 2019, 9, 27.	3.5	18
116	A simple model to predict train-induced vibration: theoretical formulation and experimental validation. <i>Environmental Impact Assessment Review</i> , 2003, 23, 305-322.	9.2	17
117	Shape changes and budding of giant vesicles induced by an internal chemical trigger: an interplay between osmosis and pH change. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4262-4270.	2.8	16
118	Thermal Analysis of an Industrial Furnace. <i>Energies</i> , 2016, 9, 833.	3.1	15
119	Pollutants monitoring and air quality evaluation in a confined environment: The "Majesty" of Ambrogio Lorenzetti in the St. Augustine Church in Siena (Italy). <i>Atmospheric Pollution Research</i> , 2016, 7, 754-761.	3.8	15
120	Differentiation of microbial activity and functional diversity between various biocrust elements in a heterogeneous crustal community. <i>Catena</i> , 2016, 147, 138-145.	5.0	14
121	Enhanced solubility of trichloroethylene (TCE) by a poly-oxethylene alcohol as green surfactant. <i>Environmental Technology and Innovation</i> , 2018, 12, 72-79.	6.1	14
122	Spatial recurrence strategies reveal different routes to Turing pattern formation in chemical systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 4266-4272.	2.1	13
123	Oxidative Degradation of Trichloroethylene over Fe ₂ O ₃ -doped Mayenite: Chlorine Poisoning Mitigation and Improved Catalytic Performance. <i>Catalysts</i> , 2019, 9, 747.	3.5	13
124	Trichloroethylene solubilization using a series of commercial biodegradable ethoxylated fatty alcohol surfactants. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3523-3529.	3.2	13
125	Development and validation of a Monte Carlo-based numerical model for solar analyses in urban canyon configurations. <i>Building and Environment</i> , 2020, 170, 106638.	6.9	12
126	May sediments affect the inhibiting properties of NaCl on CH ₄ and CO ₂ hydrates formation? an experimental report. <i>Journal of Molecular Liquids</i> , 2022, 359, 119300.	4.9	12

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127	Effects of the electrolytes in a closed unstirred Belousov-Zhabotinsky medium. <i>Chemical Physics</i> , 2005, 313, 101-106.	1.9	11
128	Isotopic Effect on the Kinetics of the Belousov-Zhabotinsky Reaction. <i>International Journal of Molecular Sciences</i> , 2007, 8, 943-949.	4.1	11
129	Multivariate statistical analysis of chemical and electrochemical oscillators for an accurate frequency selection. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16423-16434.	2.8	11
130	Outdoor thermal comfort improvements due to innovative solar awning solutions: An experimental campaign. <i>Energy and Buildings</i> , 2020, 225, 110341.	6.7	11
131	Formation rate as parameter to distinguish nucleation from hydrate massive growth phase: Experimental investigation in presence of two different porous media. <i>Experimental Thermal and Fluid Science</i> , 2022, 131, 110525.	2.7	11
132	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. <i>Thermochimica Acta</i> , 2021, 705, 179039.	2.7	11
133	Experimental assessment of the combined effect of retroreflective façades and pavement in urban canyons. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 609, 072004.	0.6	11
134	Shape Deformation, Budding and Division of Giant Vesicles and Artificial Cells: A Review. <i>Life</i> , 2022, 12, 841.	2.4	11
135	Small Size Cylindrical Molten Carbonate Fuel Cells and Future Approaches for Decreasing Working Temperature. <i>ECS Transactions</i> , 2008, 12, 455-466.	0.5	10
136	Functionalized Clay Microparticles as Catalysts for Chemical Oscillators. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24389-24396.	3.1	10
137	Effects of retro-reflective and angular-selective retro-reflective materials on solar energy in urban canyons. <i>Solar Energy</i> , 2020, 209, 662-673.	6.1	10
138	Collective Behavior of Urease pH Clocks in Nano- and Microvesicles Controlled by Fast Ammonia Transport. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1979-1984.	4.6	10
139	Influence of different proportion of CO ₂ /N ₂ binary gas mixture on methane recovery through replacement processes in natural gas hydrates. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 175, 108932.	3.6	10
140	Control of spontaneous spiral formation in a zwitterionic micellar medium. <i>Soft Matter</i> , 2011, 7, 9498.	2.7	9
141	Engineering Enzyme-Driven Dynamic Behaviour in Lipid Vesicles. <i>Communications in Computer and Information Science</i> , 2016, , 197-208.	0.5	9
142	Adapted numerical modelling of the Belousov-Zhabotinsky reaction. <i>Journal of Mathematical Chemistry</i> , 2018, 56, 2876-2897.	1.5	9
143	Hofmeister Effect in Self-Organized Chemical Systems. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9658-9667.	2.6	9
144	Lipid-Stabilized Water-Oil Interfaces Studied by Microfocusing Small-Angle X-ray Scattering. <i>Langmuir</i> , 2017, 33, 9100-9105.	3.5	8

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145	The Effect of the Substrate on the Optic Performance of Retro-Reflective Coatings: An In-Lab Investigation. <i>Energies</i> , 2021, 14, 2921.	3.1	8
146	Synchronization scenarios induced by delayed communication in arrays of diffusively coupled autonomous chemical oscillators. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17606-17615.	2.8	8
147	Approaches to Molecular Communication Between Synthetic Compartments Based on Encapsulated Chemical Oscillators. <i>Communications in Computer and Information Science</i> , 2014, , 58-74.	0.5	8
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