

Kaouther Kerboua

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

410
citations

687363

13
h-index

752698

20
g-index

27
all docs

27
docs citations

27
times ranked

150
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational study of state equation effect on single acoustic cavitation bubble's phenomenon. <i>Ultrasonics Sonochemistry</i> , 2017, 38, 174-188.	8.2	41
2	How do dissolved gases affect the sonochemical process of hydrogen production? An overview of thermodynamic and mechanistic effects " On the "hot spot theory". <i>Ultrasonics Sonochemistry</i> , 2021, 72, 105422.	8.2	40
3	Influence of reactions heats on variation of radius, temperature, pressure and chemical species amounts within a single acoustic cavitation bubble. <i>Ultrasonics Sonochemistry</i> , 2018, 41, 449-457.	8.2	37
4	Void fraction, number density of acoustic cavitation bubbles, and acoustic frequency: A numerical investigation. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 2240-2252.	1.1	30
5	Numerical estimation of ultrasonic production of hydrogen: Effect of ideal and real gas based models. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 194-200.	8.2	28
6	Ultrasonic waveform upshot on mass variation within single cavitation bubble: Investigation of physical and chemical transformations. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 508-516.	8.2	26
7	Numerical investigation of the effect of dual frequency sonication on stable bubble dynamics. <i>Ultrasonics Sonochemistry</i> , 2018, 49, 325-332.	8.2	25
8	Oxygen-argon acoustic cavitation bubble in a water-methanol mixture: Effects of medium composition on sonochemical activity. <i>Ultrasonics Sonochemistry</i> , 2020, 61, 104811.	8.2	20
9	Energetic challenges and sonochemistry: A new alternative for hydrogen production?. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2019, 18, 84-89.	5.9	19
10	Acoustic frequency and optimum sonochemical production at single and multi-bubble scales: A modeling answer to the scaling dilemma. <i>Ultrasonics Sonochemistry</i> , 2021, 70, 105341.	8.2	18
11	Insights into numerical simulation of controlled ultrasonic waveforms driving single cavitation bubble activity. <i>Ultrasonics Sonochemistry</i> , 2018, 43, 237-247.	8.2	17
12	Low carbon ultrasonic production of alternate fuel: Operational and mechanistic concerns of the sonochemical process of hydrogen generation under various scenarios. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 26770-26787.	7.1	15
13	Sonochemical production of hydrogen: A numerical model applied to the recovery of aqueous methanol waste under oxygen-argon atmosphere. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, e13511.	2.3	14
14	Sonochemical production of hydrogen: Enhancement by summed harmonics excitation. <i>Chemical Physics</i> , 2019, 519, 27-37.	1.9	13
15	Energy balance of high-energy stable acoustic cavitation within dual-frequency sonochemical reactor. <i>Ultrasonics Sonochemistry</i> , 2021, 73, 105471.	8.2	13
16	Sonolytic and ultrasound-assisted techniques for hydrogen production: A review based on the role of ultrasound. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 17879-17893.	7.1	12
17	Kinetic pathways of iron electrode transformations in Galvano-Fenton process: A mechanistic investigation of in-situ catalyst formation and regeneration. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 116, 81-91.	5.3	8
18	Numerical Characterization of Acoustic Cavitation Bubbles with Respect to the Bubble Size Distribution at Equilibrium. <i>Processes</i> , 2021, 9, 1546.	2.8	6

#	ARTICLE	IF	CITATIONS
19	Acoustic cavitation events and solvation power of ionic liquid in a novel hybrid technique: A concept proposal toward a green pathway for cellulose decomposition. <i>Ultrasonics Sonochemistry</i> , 2021, 73, 105469.	8.2	5
20	The Galvano-Fenton process: Experimental insights and numerical mechanistic investigation applied to the degradation of acid orange 7. <i>Electrochimica Acta</i> , 2021, 373, 137897.	5.2	4
21	Simultaneous Galvanic Generation of Fe ²⁺ Catalyst and Spontaneous Energy Release in the Galvano-Fenton Technique: A Numerical Investigation of Phenol's Oxidation and Energy Production and Saving. <i>Catalysts</i> , 2021, 11, 943.	3.5	4
22	Sonochemistry in Green Processes: Modeling, Experiments, and Technology. <i>Nanotechnology in the Life Sciences</i> , 2020, , 409-460.	0.6	4
23	Predicting the Sonochemical Efficiency for Water Decontamination: An Upscaled Numerical Approach. <i>Chemical Engineering and Technology</i> , 2021, 44, 273-282.	1.5	2
24	A Novel Energy-from-Waste Approach for Electrical Energy Production by Galvano-Fenton Process. <i>Molecules</i> , 2021, 26, 4013.	3.8	2
25	Galvano-Fenton Engineering Solution with Spontaneous Catalyst's Generation from Waste: Experimental Efficiency, Parametric Analysis and Modeling Interpretation Applied to a Clean Technology for Dyes Degradation in Water. <i>Molecules</i> , 2021, 26, 5640.	3.8	1
26	Numerical design and simulation of a thermodynamic solar solution for a pilot residential building at the edge of the sun-belt region. <i>Environment, Development and Sustainability</i> , 2022, 24, 12582-12608.	5.0	1