

Andrzej I Stankiewicz

List of Publications by Year in descending order

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41
papers

2,904
citations

201385

27
h-index

288905

40
g-index

59
all docs

59
docs citations

59
times ranked

2942
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure, Energy, Synergy, Time—The Fundamentals of Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 2465-2474.	1.8	500
2	A review of intensification of photocatalytic processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 781-789.	1.8	387
3	Membrane engineering in process intensification—An overview. <i>Journal of Membrane Science</i> , 2011, 380, 1-8.	4.1	343
4	Process intensification and process systems engineering: A friendly symbiosis. <i>Computers and Chemical Engineering</i> , 2008, 32, 3-11.	2.0	168
5	Hydrodynamic evaluations in high rate algae pond (HRAP) design. <i>Chemical Engineering Journal</i> , 2013, 217, 231-239.	6.6	124
6	A helicopter view of microwave application to chemical processes: reactions, separations, and equipment concepts. <i>Reviews in Chemical Engineering</i> , 2014, 30, .	2.3	91
7	On the effect of resonant microwave fields on temperature distribution in time and space. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 3800-3811.	2.5	87
8	Intensified Reaction and Separation Systems. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2011, 2, 431-451.	3.3	78
9	Microwaves and microreactors: Design challenges and remedies. <i>Chemical Engineering Journal</i> , 2014, 243, 147-158.	6.6	73
10	Microwave-activated methanol steam reforming for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 12843-12852.	3.8	67
11	Synthesis, characterization, and application of ruthenium-doped SrTiO ₃ perovskite catalysts for microwave-assisted methane dry reforming. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 127, 178-190.	1.8	66
12	On the accuracy and reproducibility of fiber optic (FO) and infrared (IR) temperature measurements of solid materials in microwave applications. <i>Measurement Science and Technology</i> , 2010, 21, 045108.	1.4	63
13	Crystal Nucleation by Laser-Induced Cavitation. <i>Crystal Growth and Design</i> , 2011, 11, 2311-2316.	1.4	62
14	Complexity and Challenges in Noncontact High Temperature Measurements in Microwave-Assisted Catalytic Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 13379-13391.	1.8	62
15	Numerical analysis of microwave heating cavity: Combining electromagnetic energy, heat transfer and fluid dynamics for a NaY zeolite fixed-bed. <i>Applied Thermal Engineering</i> , 2019, 155, 226-238.	3.0	58
16	Process Intensification of Reactive Distillation for the Synthesis of <i>n</i> -Propyl Propionate: The Effects of Microwave Radiation on Molecular Separation and Esterification Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 10287-10296.	1.8	51
17	Beyond electrolysis: old challenges and new concepts of electricity-driven chemical reactors. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1005-1016.	1.9	51
18	A concise review on microwave-assisted polycondensation reactions and curing of polycondensation polymers with focus on the effect of process conditions. <i>Chemical Engineering Journal</i> , 2015, 264, 633-644.	6.6	49

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19	On the parametric sensitivity of heat generation by resonant microwave fields in process fluids. <i>International Journal of Heat and Mass Transfer</i> , 2013, 57, 375-388.	2.5	48
20	Syngas production via microwave-assisted dry reforming of methane. <i>Catalysis Today</i> , 2021, 362, 72-80.	2.2	42
21	Microwave Swing Regeneration vs Temperature Swing Regeneration – Comparison of Desorption Kinetics. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 8632-8644.	1.8	40
22	Subtle Microwave-Induced Overheating Effects in an Industrial Demethylation Reaction and Their Direct Use in the Development of an Innovative Microwave Reactor. <i>Journal of the American Chemical Society</i> , 2017, 139, 5431-5436.	6.6	36
23	Perspectives of Microwaves-Enhanced Heterogeneous Catalytic Gas-Phase Processes in Flow Systems. <i>Chemical Record</i> , 2019, 19, 40-50.	2.9	35
24	Rigid Body Dynamics Algorithm for Modeling Random Packing Structures of Nonspherical and Nonconvex Pellets. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 14988-15007.	1.8	34
25	On the Reliability of Sensitivity Test Methods for Submicrometer-Sized RDX and HMX Particles. <i>Propellants, Explosives, Pyrotechnics</i> , 2013, 38, 761-769.	1.0	31
26	110th Anniversary: The Missing Link Unearthed: Materials and Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9212-9222.	1.8	29
27	Process intensification education contributes to sustainable development goals. Part 2. <i>Education for Chemical Engineers</i> , 2020, 32, 15-24.	2.8	28
28	A systematic investigation of microwave-assisted reactive distillation: Influence of microwaves on separation and reaction. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 93, 87-97.	1.8	27
29	Multiparameter Investigation of Laser-Induced Nucleation of Supersaturated Aqueous KCl Solutions. <i>Crystal Growth and Design</i> , 2018, 18, 312-317.	1.4	22
30	Exploration of rectangular waveguides as a basis for microwave enhanced continuous flow chemistries. <i>Chemical Engineering Science</i> , 2013, 89, 196-205.	1.9	20
31	Coaxial traveling-wave microwave reactors: Design challenges and solutions. <i>Chemical Engineering Research and Design</i> , 2020, 153, 677-683.	2.7	20
32	Microwave heating in heterogeneous catalysis: Modelling and design of rectangular traveling-wave microwave reactor. <i>Chemical Engineering Science</i> , 2021, 232, 116383.	1.9	17
33	Novel microwave reactor equipment using internal transmission line (INTLI) for efficient liquid phase chemistries: A study-case of polyester preparation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 69, 83-89.	1.8	15
34	Model-Based Optimization of a Photocatalytic Reactor with Light-Emitting Diodes. <i>Chemical Engineering and Technology</i> , 2016, 39, 1946-1954.	0.9	12
35	A two-step modelling approach for plasma reactors – experimental validation for CO ₂ dissociation in surface wave microwave plasma. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1253-1269.	1.9	11
36	Catalyst Heating Characteristics in the Traveling-Wave Microwave Reactor. <i>Catalysts</i> , 2021, 11, 369.	1.6	8

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37	Practical challenges in the energy-based control of molecular transformations in chemical reactors. <i>AIChE Journal</i> , 2014, 60, 3392-3405.	1.8	6
38	Reverse traveling microwave reactor – Modelling and design considerations. <i>Chemical Engineering Science</i> , 2021, 246, 116862.	1.9	5
39	The behavior and modelling of the vibrational-to-translational temperature ratio at long time scales in CO ₂ vibrational kinetics. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 2108-2116.	1.9	1
40	Penrose triangles of the fossil-to-bio-based transition. <i>Faraday Discussions</i> , 2017, 202, 521-529.	1.6	0
41	4.1 Membrane Crystallization Technology and Process Intensification. , 2017, , 1-7.		0