

Yihua Ren

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

640
citations

623574

14
h-index

677027

22
g-index

23
all docs

23
docs citations

23
times ranked

503
citing authors

#	ARTICLE	IF	CITATIONS
1	Flame aerosol synthesis of nanostructured materials and functional devices: Processing, modeling, and diagnostics. <i>Progress in Energy and Combustion Science</i> , 2016, 55, 1-59.	15.8	249
2	A new diagnostic for volume fraction measurement of metal-oxide nanoparticles in flames using phase-selective laser-induced breakdown spectroscopy. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 3681-3688.	2.4	45
3	Absorption-Ablation-Excitation Mechanism of Laser-Cluster Interactions in a Nanoaerosol System. <i>Physical Review Letters</i> , 2015, 114, 093401.	2.9	32
4	Sintering-Induced Phase Transformation of Nanoparticles: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28631-28639.	1.5	26
5	Dynamics and kinetics of reversible homo-molecular dimerization of polycyclic aromatic hydrocarbons. <i>Journal of Chemical Physics</i> , 2017, 147, 244305.	1.2	26
6	Doping mechanism of Vanadia/Titania nanoparticles in flame synthesis by a novel optical spectroscopy technique. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 2283-2289.	2.4	25
7	Low-frequency AC electric field induced thermoacoustic oscillation of a premixed stagnation flame. <i>Combustion and Flame</i> , 2017, 176, 479-488.	2.8	25
8	Stabilization of Premixed Swirl Flames Under Flow Pulsations Using Microsecond Pulsed Plasmas. <i>Journal of Propulsion and Power</i> , 2019, 35, 190-200.	1.3	22
9	Investigation of mechanisms in plasma-assisted ignition of dispersed coal particle streams. <i>Fuel</i> , 2016, 186, 518-524.	3.4	21
10	Effects of temperature-time history on the flame synthesis of nanoparticles in a swirl-stabilized tubular burner with two feeding modes. <i>Journal of Aerosol Science</i> , 2019, 133, 72-82.	1.8	21
11	Investigating the role of solvent formulations in temperature-controlled liquid-fed aerosol flame synthesis of YAG-based nanoparticles. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1193-1201.	2.4	20
12	Two-dimensional imaging of gas-to-particle transition in flames by laser-induced nanoplasmas. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	19
13	Amorphous-to-Crystalline Transition during Sintering of Nascent TiO_2 Nanoparticles in Gas-Phase Synthesis: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27763-27771.	1.5	19
14	Theoretical Single-Droplet Model for Particle Formation in Flame Spray Pyrolysis. <i>Energy & Fuels</i> , 2021, 35, 1750-1759.	2.5	18
15	Electrohydrodynamic instability of premixed flames under manipulations of dc electric fields. <i>Physical Review E</i> , 2018, 97, 013103.	0.8	15
16	Experimental and numerical studies on electric field distribution of a premixed stagnation flame under DC power supply. <i>Combustion and Flame</i> , 2020, 215, 103-112.	2.8	11
17	Flame synthesis of carbon metal-oxide nanocomposites in a counterflow burner. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1269-1277.	2.4	11
18	Quantitative measurement of mixture fraction in counterflow diffusion flames by laser-induced breakdown spectroscopy. <i>Combustion and Flame</i> , 2022, 241, 112130.	2.8	11

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19	Single-shot two-dimensional measurement of nanoparticles in turbulent jet-diffusion flames using phase-selective laser-induced breakdown spectroscopy. Proceedings of the Combustion Institute, 2019, 37, 1373-1381.	2.4	7
20	In-situ laser diagnostic of nanoparticle formation and transport behavior in flame aerosol deposition. Proceedings of the Combustion Institute, 2019, 37, 935-942.	2.4	7
21	Simultaneous Single-Shot Two-Dimensional Imaging of Nanoparticles and Radicals in Turbulent Reactive Flows. Physical Review Applied, 2020, 13, .	1.5	7
22	Influences of heat flux on extinction characteristics of steady/unsteady premixed stagnation flames. Proceedings of the Combustion Institute, 2021, 38, 2305-2314.	2.4	3
23	In-situ laser diagnostic of nanoparticle formation and transport by phase-selective laser-induced breakdown spectroscopy. , 2020, , .		0