

Kai Du

List of Publications by Year in descending order

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papers

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times ranked

859
citing authors

#	ARTICLE	IF	CITATIONS
1	Polypyrrole/Graphene/Polyaniline Ternary Nanocomposite with High Thermoelectric Power Factor. ACS Applied Materials & Interfaces, 2017, 9, 20124-20131.	8.0	130
2	Progress in octahedral spherical hohlraum study. Matter and Radiation at Extremes, 2016, 1, 8-27.	3.9	106
3	Minimal surface designs for porous materials: from microstructures to mechanical properties. Journal of Materials Science, 2018, 53, 10194-10208.	3.7	79
4	On-Site Detection of SARS-CoV-2 Antigen by Deep Learning-Based Surface-Enhanced Raman Spectroscopy and Its Biochemical Foundations. Analytical Chemistry, 2021, 93, 9174-9182.	6.5	58
5	First demonstration of improving laser propagation inside the spherical hohlraums by using the cylindrical laser entrance hole. Matter and Radiation at Extremes, 2016, 1, 2-7.	3.9	39
6	An intelligent and portable power storage device able to visualize the energy status. Journal of Materials Chemistry A, 2019, 7, 23028-23037.	10.3	38
7	First Investigation on the Radiation Field of the Spherical Hohlraum. Physical Review Letters, 2016, 117, 025002.	7.8	35
8	Experimental demonstration of low laser-plasma instabilities in gas-filled spherical hohlraums at laser injection angle designed for ignition target. Physical Review E, 2017, 95, 031202.	2.1	28
9	Pyridine-2,6-dicarboxylic acid for the sensitization of europium(ⁱⁱⁱ) luminescence with very long lifetimes. RSC Advances, 2015, 5, 58936-58942.	3.6	27
10	Island-like Nanoporous Gold: Smaller Island Generates Stronger Surface-Enhanced Raman Scattering. ACS Applied Materials & Interfaces, 2017, 9, 28902-28910.	8.0	23
11	Novel Hybrid p- and n-Type Organic Thermoelectric Materials Based on Mussel-Inspired Polydopamine. ACS Applied Materials & Interfaces, 2021, 13, 23970-23982.	8.0	23
12	First experimental comparisons of laser-plasma interactions between spherical and cylindrical hohlraums at SGIII laser facility. Matter and Radiation at Extremes, 2017, 2, 77-86.	3.9	18
13	Automatic precision robot assembly system with microscopic vision and force sensor. International Journal of Advanced Robotic Systems, 2019, 16, 172988141985161.	2.1	17
14	Toward the Limitation of Dealloying: Full Spectrum Responsive Ultralow Density Nanoporous Gold for Plasmonic Photocatalytic SERS. ACS Applied Materials & Interfaces, 2021, 13, 7735-7744.	8.0	17
15	Gradient nanoporous gold: a novel surface-enhanced Raman scattering substrate. RSC Advances, 2017, 7, 15747-15753.	3.6	16
16	First Octahedral Spherical Hohlraum Energetics Experiment at the SGIII Laser Facility. Physical Review Letters, 2018, 120, 165001.	7.8	16
17	First Inertial Confinement Fusion Implosion Experiment in Octahedral Spherical Hohlraum. Physical Review Letters, 2021, 127, 245001.	7.8	16
18	Thermoelectric Properties of Polypyrrole Nanotubes. Macromolecular Research, 2020, 28, 973-978.	2.4	15

#	ARTICLE	IF	CITATIONS
19	Multiple morphologies of a poly(methyl methacrylate)- <i>block</i> -poly(<i>N,N</i> -dimethyl aminoethyl) Tj ETQq1 1 0.784314 Polymer Science, 2019, 136, 47972.	2.6	14
20	Formation and evolution of a pair of collisionless shocks in counter-streaming flows. Scientific Reports, 2017, 7, 42915.	3.3	12
21	A new variable structure sliding mode control strategy for FTS in diamond-cutting microstructured surfaces. International Journal of Advanced Manufacturing Technology, 2013, 65, 1177-1184.	3.0	11
22	Structure-Dependent Analysis of Nanoporous Metals: Clues from Mechanical, Conduction, and Flow Properties. Journal of Physical Chemistry C, 2018, 122, 16803-16809.	3.1	11
23	Development of target fabrication for laser-driven inertial confinement fusion at research center of laser fusion. High Power Laser Science and Engineering, 2017, 5, .	4.6	10
24	Comparison of the laser spot movement inside cylindrical and spherical hohlraums. Physics of Plasmas, 2017, 24, 072711.	1.9	9
25	Mechanical Design and Analysis of an Indirect-drive Cryogenic Target. Journal of Fusion Energy, 2016, 35, 673-682.	1.2	6
26	Synthesis of water-soluble polyphenol- <i>graft</i> -poly(ethylene oxide) copolymers via enzymatic polymerization and anionic polymerization. Polymer International, 2010, 59, 676-679.	3.1	4
27	Constructing high-accuracy theoretical Raman spectra of SARS-CoV-2 spike proteins based on a large fragment method. Chemical Physics Letters, 2022, 800, 139663.	2.6	4
28	Microstructure Evolution of Copper-Doped Tungsten Coatings for Inertial Confinement Fusion Application. Fusion Science and Technology, 2017, 71, 187-195.	1.1	3
29	Enhanced thermoelectric properties of poly(3,4-ethylenedioxythiophene): Poly(styrenesulfonate)/copper phthalocyanine disulfonic acid composite films. Journal of Applied Polymer Science, 2021, 138, 50883.	2.6	3
30	Effects of carbon nanomaterials hybridization of Poly(3,4-ethylenedioxythiophene): poly (styrene) Tj ETQq0 0 0 rgBTJ /Overlock 10 Tf 50	2.6	3
31	Fabrication and Characterization of Fluorinated Polyimides (PI) Films with Improved Hydrophobic Property. Nano, 2018, 13, 1850080.	1.0	2
32	Measurement of Time-Dependent Drive Flux on the Capsule for Indirectly Driven Inertial Confinement Fusion Experiments. Physical Review Letters, 2022, 128, 075001.	7.8	2
33	Reinforcement Learning-Based Parallel Approach Control of Micro-Assembly Manipulators. , 2022, , .		2
34	Development of Perdeuterated Polymer Foams for Inertial Confinement Fusion Targets in China. Plasma and Fusion Research, 2009, 4, S1005-S1005.	0.7	1
35	Cutting Force Model for Diamond Cutting Microstructured Surfaces. Applied Mechanics and Materials, 0, 325-326, 1460-1464.	0.2	1
36	Simulation and Analysis of Three-Dimensional Electromagnetism, Heat Transfer, and Gas Flow for Flow-Levitation System. IEEE Nanotechnology Magazine, 2017, 16, 1106-1114.	2.0	1

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37	The Radial Distribution of Ions and Electrons in RF Inductively Coupled H ₂ /T ₂ B Plasmas. Plasma Chemistry and Plasma Processing, 2018, 38, 281-292.	2.4	1
38	Radial distribution of C ₄ H ₈ and H ₂ TMS plasma during plasma-enhanced chemical vapor deposition of Si-doped glow discharge polymers. Plasma Processes and Polymers, 2020, 17, 1900075.	3.0	1
39	Supporting data for the photo-induced deformation behavior for AZO-containing polymers connected by hydrogen bonding. Data in Brief, 2020, 28, 104849.	1.0	1
40	Ultra-Precision Turning Technology of Gold Cone in Fast Ignition. Key Engineering Materials, 2013, 562-565, 147-151.	0.4	0
41	Semi-automatic assembly method of wire-supported micro-target with various parts. , 2017, , .		0