

Kai Du

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7332836/publications.pdf>

Version: 2024-02-01

41
papers

803
citations

567281

15
h-index

501196

28
g-index

41
all docs

41
docs citations

41
times ranked

859
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of Time-Dependent Drive Flux on the Capsule for Indirectly Driven Inertial Confinement Fusion Experiments. <i>Physical Review Letters</i> , 2022, 128, 075001.	7.8	2
2	Reinforcement Learning-Based Parallel Approach Control of Micro-Assembly Manipulators. , 2022, , .		2
3	Constructing high-accuracy theoretical Raman spectra of SARS-CoV-2 spike proteins based on a large fragment method. <i>Chemical Physics Letters</i> , 2022, 800, 139663.	2.6	4
4	Toward the Limitation of Dealloying: Full Spectrum Responsive Ultralow Density Nanoporous Gold for Plasmonic Photocatalytic SERS. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7735-7744.	8.0	17
5	Enhanced thermoelectric properties of poly(3,4-ethylenedioxythiophene): Poly(styrenesulfonate)/copper phthalocyanine disulfonic acid composite films. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50883.	2.6	3
6	Novel Hybrid p- and n-Type Organic Thermoelectric Materials Based on Mussel-Inspired Polydopamine. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23970-23982.	8.0	23
7	On-Site Detection of SARS-CoV-2 Antigen by Deep Learning-Based Surface-Enhanced Raman Spectroscopy and Its Biochemical Foundations. <i>Analytical Chemistry</i> , 2021, 93, 9174-9182.	6.5	58
8	Effects of carbon nanomaterials hybridization of Poly(3,4-ethylenedioxythiophene): poly (styrene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	3
9	First Inertial Confinement Fusion Implosion Experiment in Octahedral Spherical Hohlräum. <i>Physical Review Letters</i> , 2021, 127, 245001.	7.8	16
10	Radial distribution of C 4 H 8 â€“H 2 â€“TMS plasma during plasma-enhanced chemical vapor deposition of Siâ€“doped glow discharge polymers. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900075.	3.0	1
11	Supporting data for the photo-induced deformation behavior for AZO-containing polymers connected by hydrogen bonding. <i>Data in Brief</i> , 2020, 28, 104849.	1.0	1
12	Thermoelectric Properties of Polypyrrole Nanotubes. <i>Macromolecular Research</i> , 2020, 28, 973-978.	2.4	15
13	Automatic precision robot assembly system with microscopic vision and force sensor. <i>International Journal of Advanced Robotic Systems</i> , 2019, 16, 172988141985161.	2.1	17
14	An intelligent and portable power storage device able to visualize the energy status. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23028-23037.	10.3	38
15	Multiple morphologies of a poly(methyl methacrylate)-block</i>-poly(</i>N,N</i>-dimethyl aminoethyl) Tj ETQq1 1 0.784314 rg	2.6	14
16	First Octahedral Spherical Hohlräum Energetics Experiment at the SGIII Laser Facility. <i>Physical Review Letters</i> , 2018, 120, 165001.	7.8	16
17	Minimal surface designs for porous materials: from microstructures to mechanical properties. <i>Journal of Materials Science</i> , 2018, 53, 10194-10208.	3.7	79
18	The Radial Distribution of Ions and Electrons in RF Inductively Coupled H2/T2B Plasmas. <i>Plasma Chemistry and Plasma Processing</i> , 2018, 38, 281-292.	2.4	1

#	ARTICLE	IF	CITATIONS
19	Structure-Dependent Analysis of Nanoporous Metals: Clues from Mechanical, Conduction, and Flow Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16803-16809.	3.1	11
20	Fabrication and Characterization of Fluorinated Polyimides (PI) Films with Improved Hydrophobic Property. <i>Nano</i> , 2018, 13, 1850080.	1.0	2
21	Formation and evolution of a pair of collisionless shocks in counter-streaming flows. <i>Scientific Reports</i> , 2017, 7, 42915.	3.3	12
22	Gradient nanoporous gold: a novel surface-enhanced Raman scattering substrate. <i>RSC Advances</i> , 2017, 7, 15747-15753.	3.6	16
23	Polypyrrole/Graphene/Polyaniline Ternary Nanocomposite with High Thermoelectric Power Factor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20124-20131.	8.0	130
24	First experimental comparisons of laser-plasma interactions between spherical and cylindrical hohlraums at SGIII laser facility. <i>Matter and Radiation at Extremes</i> , 2017, 2, 77-86.	3.9	18
25	Semi-automatic assembly method of wire-supported micro-target with various parts. , 2017, , .		0
26	Experimental demonstration of low laser-plasma instabilities in gas-filled spherical hohlraums at laser injection angle designed for ignition target. <i>Physical Review E</i> , 2017, 95, 031202.	2.1	28
27	Microstructure Evolution of Copper-Doped Tungsten Coatings for Inertial Confinement Fusion Application. <i>Fusion Science and Technology</i> , 2017, 71, 187-195.	1.1	3
28	Development of target fabrication for laser-driven inertial confinement fusion at research center of laser fusion. <i>High Power Laser Science and Engineering</i> , 2017, 5, .	4.6	10
29	Island-like Nanoporous Gold: Smaller Island Generates Stronger Surface-Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28902-28910.	8.0	23
30	Comparison of the laser spot movement inside cylindrical and spherical hohlraums. <i>Physics of Plasmas</i> , 2017, 24, 072711.	1.9	9
31	Simulation and Analysis of Three-Dimensional Electromagnetism, Heat Transfer, and Gas Flow for Flow-Levitation System. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 1106-1114.	2.0	1
32	Mechanical Design and Analysis of an Indirect-drive Cryogenic Target. <i>Journal of Fusion Energy</i> , 2016, 35, 673-682.	1.2	6
33	First Investigation on the Radiation Field of the Spherical Hohlraum. <i>Physical Review Letters</i> , 2016, 117, 025002.	7.8	35
34	First demonstration of improving laser propagation inside the spherical hohlraums by using the cylindrical laser entrance hole. <i>Matter and Radiation at Extremes</i> , 2016, 1, 2-7.	3.9	39
35	Progress in octahedral spherical hohlraum study. <i>Matter and Radiation at Extremes</i> , 2016, 1, 8-27.	3.9	106
36	Pyridine-2,6-dicarboxylic acid for the sensitization of europium(ⁱⁱⁱ) luminescence with very long lifetimes. <i>RSC Advances</i> , 2015, 5, 58936-58942.	3.6	27

#	ARTICLE	IF	CITATIONS
37	A new variable structure sliding mode control strategy for FTS in diamond-cutting microstructured surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 65, 1177-1184.	3.0	11
38	Ultra-Precision Turning Technology of Gold Cone in Fast Ignition. <i>Key Engineering Materials</i> , 2013, 562-565, 147-151.	0.4	0
39	Synthesis of water-soluble polyphenol-graft-poly(ethylene oxide) copolymers via enzymatic polymerization and anionic polymerization. <i>Polymer International</i> , 2010, 59, 676-679.	3.1	4
40	Development of Perdeuterated Polymer Foams for Inertial Confinement Fusion Targets in China. <i>Plasma and Fusion Research</i> , 2009, 4, S1005-S1005.	0.7	1
41	Cutting Force Model for Diamond Cutting Microstructured Surfaces. <i>Applied Mechanics and Materials</i> , 0, 325-326, 1460-1464.	0.2	1