Yidong Xia

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3332093/publications.pdf

Version: 2024-02-01

		430874	434195
57	1,121	18	31
papers	citations	h-index	g-index

58	58	58	1126
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A set of hysteretic nonlinear contact models for DEM: Theory, formulation, and application for lignocellulosic biomass. Powder Technology, 2022, 399, 117100.	4.2	6
2	The elastoplastic flexural behaviour of corn stalks. Biosystems Engineering, 2022, 216, 218-228.	4.3	10
3	Measurement of Transport Properties of Woody Biomass Feedstock Particles Before and After Pyrolysis by Numerical Analysis of X-Ray Tomographic Reconstructions. Frontiers in Energy Research, 2022, 10, .	2.3	3
4	Flowability of Crumbler Rotary Shear Size-Reduced Granular Biomass: An Experiment-Informed Modeling Study on the Angle of Repose. Frontiers in Energy Research, 2022, 10, .	2.3	6
5	A modified many-body dissipative particle dynamics model for mesoscopic fluid simulation: methodology, calibration, and application for hydrocarbon and water. Molecular Simulation, 2021, 47, 363-375.	2.0	11
6	Enhancement of Memory Properties of Pentacene Field-Effect Transistor by the Reconstruction of an Inner Vertical Electric Field with an n-Type Semiconductor Interlayer. ACS Applied Materials & Interfaces, 2021, 13, 13452-13458.	8.0	12
7	Assessment of a tomography-informed polyhedral discrete element modelling approach for complex-shaped granular woody biomass in stress consolidation. Biosystems Engineering, 2021, 205, 187-211.	4.3	12
8	A nonlinear elasto-plastic bond model for the discrete element modeling of woody biomass particles. Powder Technology, 2021, 385, 557-571.	4.2	12
9	Flow behavior characterization of biomass Feedstocks. Powder Technology, 2021, 387, 156-180.	4.2	22
10	X-ray computed tomography-based porosity analysis: Algorithms and application for porous woody biomass. Powder Technology, 2021, 388, 496-504.	4.2	7
11	Flow reduction of hydrocarbon liquid in silica nanochannel: Insight from many-body dissipative particle dynamics simulations. Journal of Molecular Liquids, 2021, , 117673.	4.9	8
12	A GPU-accelerated package for simulation of flow in nanoporous source rocks with many-body dissipative particle dynamics. Computer Physics Communications, 2020, 247, 106874.	7.5	20
13	Discrete element modeling of switchgrass particles under compression and rotational shear. Biomass and Bioenergy, 2020, 141, 105649.	5.7	22
14	Confinement-Mediated Phase Behavior of Hydrocarbon Fluids: Insights from Monte Carlo Simulations. Langmuir, 2020, 36, 7277-7288.	3.5	18
15	A Review of Computational Models for the Flow of Milled Biomass Part I: Discrete-Particle Models. ACS Sustainable Chemistry and Engineering, 2020, 8, 6142-6156.	6.7	31
16	A Review of Computational Models for the Flow of Milled Biomass Part II: Continuum-Mechanics Models. ACS Sustainable Chemistry and Engineering, 2020, 8, 6157-6172.	6.7	22
17	High Visibleâ€Lightâ€Stimulated Plasticity in Optoelectronic Synaptic Transistors for Irradiation Historyâ€Dependent Learning. Advanced Electronic Materials, 2020, 6, 1901255.	5.1	13
18	Enhanced Performance of Organic Fieldâ€Effect Transistor Memory by Holeâ€Barrier Modulation with an Nâ€Type Organic Buffer Layer between Pentacene and Polymer Electret. Advanced Electronic Materials, 2020, 6, 1901184.	5.1	14

#	Article	IF	Citations
19	The magnetism of 1T-MX₂ (M = Zr, Hf; X = S, Se) monolayers by hole doping. RSC Advances, 2019, 9, 13561-13566.	3.6	16
20	Highâ€Performance Organic Fieldâ€Effect Transistor with Matching Energyâ€Band Alignment between Organic Semiconductor and the Chargeâ€Trapping Dielectric. Advanced Electronic Materials, 2019, 5, 1800865.	5.1	7
21	Band-alignment dominated retention behaviors in high-k composite charge-trapping memory devices. Applied Physics Letters, 2019, 114, .	3.3	9
22	Discrete element modeling of deformable pinewood chips in cyclic loading test. Powder Technology, 2019, 345, 1-14.	4.2	39
23	A reconstructed discontinuous Galerkin method for compressible turbulent flows on 3D curved grids. Computers and Fluids, 2018, 160, 26-41.	2.5	12
24	Assessment of a Hybrid Continuous/Discontinuous Galerkin Finite Element Code for Geothermal Reservoir Simulations. Rock Mechanics and Rock Engineering, 2017, 50, 719-732.	5.4	7
25	Many-body dissipative particle dynamics modeling of fluid flow in fine-grained nanoporous shales. Physics of Fluids, 2017, 29, .	4.0	32
26	Design, modeling, and evaluation of a doublet heat extraction model in enhanced geothermal systems. Renewable Energy, 2017, 105, 232-247.	8.9	69
27	A Comparative Study of Rosenbrock-Type and Implicit Runge-Kutta Time Integration for Discontinuous Galerkin Method for Unsteady 3D Compressible Navier-Stokes equations. Communications in Computational Physics, 2016, 20, 1016-1044.	1.7	28
28	Coexistence of negative photoconductivity and hysteresis in semiconducting graphene. AIP Advances, 2016, 6, .	1.3	14
29	Tunable electronic structures in MPX₃ (M = Zn, Cd; X = S, Se) monolayers by strain engineering. RSC Advances, 2016, 6, 89901-89906.	3.6	19
30	Carrier-tunable magnetism in two dimensional graphene-like C₂N. RSC Advances, 2016, 6, 54027-54031.	3.6	28
31	A hybrid incremental projection method for thermal-hydraulics applications. Journal of Computational Physics, 2016, 317, 382-404.	3.8	7
32	Heating power lowering by downscaling the cell dimensions in nanoscale filamentary resistive switching devices. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	1
33	Assessment of a hybrid finite element and finite volume code for turbulent incompressible flows. Journal of Computational Physics, 2016, 307, 653-669.	3.8	3
34	OpenACC directive-based GPU acceleration of an implicit reconstructed discontinuous Galerkin method for compressible flows on 3D unstructured grids. , 2016, , .		6
35	A thirdâ€order implicit discontinuous Galerkin method based on a Hermite WENO reconstruction for timeâ€accurate solution of the compressible Navierâ€“Stokes equations. International Journal for Numerical Methods in Fluids, 2015, 79, 416-435.	1.6	22
36	Interface modulation and resistive switching evolution in Pt/NiO x /Al2O3/n+â€“Si structure. Applied Physics A: Materials Science and Processing, 2015, 118, 1365-1370.	2.3	2

#	Article	IF	Citations
37	OpenACC acceleration of an unstructured CFD solver based on a reconstructed discontinuous Galerkin method for compressible flows. International Journal for Numerical Methods in Fluids, 2015, 78, 123-139.	1.6	21
38	Enhanced half-metallicity in the zigzag graphene nanoribbons by adsorption of the zigzag hydrogen fluoride molecular chains. AIP Advances, 2014, 4, 067132.	1.3	0
39	A set of parallel, implicit methods for a reconstructed discontinuous Galerkin method for compressible flows on 3D hybrid grids. Computers and Fluids, 2014, 98, 134-151.	2.5	40
40	An implicit Hermite WENO reconstruction-based discontinuous Galerkin method on tetrahedral grids. Computers and Fluids, 2014, 96, 406-421.	2.5	30
41	A reconstructed discontinuous Galerkin method based on a Hierarchical WENO reconstruction for compressible flows on tetrahedral grids. Journal of Computational Physics, 2013, 236, 477-492.	3.8	94
42	The interface inter-diffusion induced enhancement of the charge-trapping capability in HfO2/Al2O3 multilayered memory devices. Applied Physics Letters, 2013, 103, .	3.3	44
43	A Parallel, Implicit Reconstructed Discontinuous Galerkin Method for the Compressible Flows on 3D Arbitrary Grids. , 2013, , .		5
44	An Implicit Reconstructed Discontinuous Galerkin Method Based on Automatic Differentiation for the Navier-Stokes Equations on Tetrahedron Grids. , 2013, , .		5
45	A Hermite WENO reconstruction-based discontinuous Galerkin method for the Euler equations on tetrahedral grids. Journal of Computational Physics, 2012, 231, 5489-5503.	3.8	69
46	Electronâ€beam induced phase transformation in Î²â€Ag₂Se thin films. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 135-138.	1.8	6
47	Thermodynamic and Kinetic Analysis of Lowtemperature Thermal Reduction of Graphene Oxide. Nano-Micro Letters, 2011, 3, 51-55.	27.0	86
48	Redox-controlled memristive switching in the junctions employing Ti reactive electrodes. AIP Advances, 2011, 1, 032141.	1.3	3
49	Preparation and characterization of GeTe4 thin films as a candidate for phase change memory applications. Journal of Applied Physics, 2011, 109, .	2.5	13
50	Thermodynamic and Kinetic Analysis of Lowtemperature Thermal Reduction of Graphene Oxide. , 2011, 3, 51.		1
51	Memristive behaviors of LiNbO3 ferroelectric diodes. Applied Physics Letters, 2010, 97, 012902.	3.3	40
52	A TiAl2O5 nanocrystal charge trap memory device. Applied Physics Letters, 2010, 97, 143504.	3.3	37
53	Conduction behavior change in amorphous LaLuO3 dielectrics based on correlated barrier hopping theory. Applied Physics Letters, 2010, 96, 182904.	3.3	21
54	Modulation of the band offsets between La2Hf2O7 and fully depleted SiGe on insulator by NH3 treatment. Journal of Applied Physics, 2009, 106, 046104.	2.5	2

#	Article	IF	Citations
55	Electrical field induced precipitation reaction and percolation in Ag30Ge17Se53 amorphous electrolyte films. Applied Physics Letters, 2009, 94, 162112.	3.3	25
56	Flow Reduction in Pore Networks of Packed Silica Nanoparticles: Insights from Mesoscopic Fluid Models. Langmuir, 0, , .	3.5	2
57	On the Fidelity of Computational Models for the Flow of Milled Loblolly Pine: A Benchmark Study on Continuum-Mechanics Models and Discrete-Particle Models. Frontiers in Energy Research, 0, 10, .	2.3	6