Yidong Xia

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Thermodynamic and Kinetic Analysis of Lowtemperature Thermal Reduction of Graphene Oxide. Nano-Micro Letters, 2011, 3, 51-55.	27.0	86
3	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
4	Design, modeling, and evaluation of a doublet heat extraction model in enhanced geothermal systems. Renewable Energy, 2017, 105, 232-247.	8.9	69
5	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
6	Memristive behaviors of LiNbO3 ferroelectric diodes. Applied Physics Letters, 2010, 97, 012902.	3.3	40
7	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
8	Discrete element modeling of deformable pinewood chips in cyclic loading test. Powder Technology, 2019, 345, 1-14.	4.2	39
9	A TiAl2O5 nanocrystal charge trap memory device. Applied Physics Letters, 2010, 97, 143504.	3.3	37
10	Many-body dissipative particle dynamics modeling of fluid flow in fine-grained nanoporous shales. Physics of Fluids, 2017, 29, .	4.0	32
11	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
12	An implicit Hermite WENO reconstruction-based discontinuous Galerkin method on tetrahedral grids. Computers and Fluids, 2014, 96, 406-421.	2.5	30
13	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
14	Carrier-tunable magnetism in two dimensional graphene-like C ₂ N. RSC Advances, 2016, 6, 54027-54031.	3.6	28
15	Electrical field induced precipitation reaction and percolation in Ag30Ge17Se53 amorphous electrolyte films. Applied Physics Letters, 2009, 94, 162112.	3.3	25
16	A thirdâ€order implicit discontinuous Galerkin method based on a Hermite WENO reconstruction for timeâ€accurate solution of the compressible Navier–Stokes equations. International Journal for Numerical Methods in Fluids, 2015, 79, 416-435.	1.6	22
17	Discrete element modeling of switchgrass particles under compression and rotational shear. Biomass and Bioenergy, 2020, 141, 105649.	5.7	22
18	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

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19	Flow behavior characterization of biomass Feedstocks. Powder Technology, 2021, 387, 156-180.	4.2	22
20	Conduction behavior change in amorphous LaLuO3 dielectrics based on correlated barrier hopping theory. Applied Physics Letters, 2010, 96, 182904.	3.3	21
21	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
22	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
23	Tunable electronic structures in MPX ₃ (M = Zn, Cd; X = S, Se) monolayers by strain engineering. RSC Advances, 2016, 6, 89901-89906.	3.6	19
24	Confinement-Mediated Phase Behavior of Hydrocarbon Fluids: Insights from Monte Carlo Simulations. Langmuir, 2020, 36, 7277-7288.	3.5	18
25	The magnetism of 1T-MX ₂ (M = Zr, Hf; X = S, Se) monolayers by hole doping. RSC Advances, 2019, 9, 13561-13566.	3.6	16
26	Coexistence of negative photoconductivity and hysteresis in semiconducting graphene. AIP Advances, 2016, 6, .	1.3	14
27	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
28	Preparation and characterization of GeTe4 thin films as a candidate for phase change memory applications. Journal of Applied Physics, 2011, 109, .	2.5	13
29	High Visibleâ€Lightâ€Stimulated Plasticity in Optoelectronic Synaptic Transistors for Irradiation Historyâ€Dependent Learning. Advanced Electronic Materials, 2020, 6, 1901255.	5.1	13
30	A reconstructed discontinuous Galerkin method for compressible turbulent flows on 3D curved grids. Computers and Fluids, 2018, 160, 26-41.	2.5	12
31	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
32	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
33	A nonlinear elasto-plastic bond model for the discrete element modeling of woody biomass particles. Powder Technology, 2021, 385, 557-571.	4.2	12
34	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
35	The elastoplastic flexural behaviour of corn stalks. Biosystems Engineering, 2022, 216, 218-228.	4.3	10
36	Band-alignment dominated retention behaviors in high-k composite charge-trapping memory devices. Applied Physics Letters, 2019, 114, .	3.3	9

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37	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
38	A hybrid incremental projection method for thermal-hydraulics applications. Journal of Computational Physics, 2016, 317, 382-404.	3.8	7
39	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
40	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
41	X-ray computed tomography-based porosity analysis: Algorithms and application for porous woody biomass. Powder Technology, 2021, 388, 496-504.	4.2	7
42	Electronâ€beam induced phase transformation in βâ€Ag ₂ Se thin films. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 135-138.	1.8	6
43	OpenACC directive-based GPU acceleration of an implicit reconstructed discontinuous Galerkin method for compressible flows on 3D unstructured grids. , 2016, , .		6
44	A set of hysteretic nonlinear contact models for DEM: Theory, formulation, and application for lignocellulosic biomass. Powder Technology, 2022, 399, 117100.	4.2	6
45	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
46	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
47	A Parallel, Implicit Reconstructed Discontinuous Galerkin Method for the Compressible Flows on 3D Arbitrary Grids. , 2013, , .		5
48	An Implicit Reconstructed Discontinuous Galerkin Method Based on Automatic Differentiation for the Navier-Stokes Equations on Tetrahedron Grids. , 2013, , .		5
49	Redox-controlled memristive switching in the junctions employing Ti reactive electrodes. AIP Advances, 2011, 1, 032141.	1.3	3
50	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
51	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
52	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
53	Interface modulation and resistive switching evolution in Pt/NiO x /Al2O3/n+–Si structure. Applied Physics A: Materials Science and Processing, 2015, 118, 1365-1370.	2.3	2
54	Flow Reduction in Pore Networks of Packed Silica Nanoparticles: Insights from Mesoscopic Fluid Models. Langmuir, 0, , .	3.5	2

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55	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
56	Thermodynamic and Kinetic Analysis of Lowtemperature Thermal Reduction of Graphene Oxide. , 2011, 3, 51.		1
57	Enhanced half-metallicity in the zigzag graphene nanoribbons by adsorption of the zigzag hydrogen fluoride molecular chains. AIP Advances, 2014, 4, 067132.	1.3	О