Pengfei Yang

List of Publications by Year
in descending order

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45 papers	2,222 citations	218677 26 h-index	243625 44 g-index
45 all docs	45 docs citations	45 times ranked	3200 citing authors

#	Article	IF	Citations
1	Oblique detonation wave triggered by a double wedge in hypersonic flow. Chinese Journal of Aeronautics, 2022, 35, 176-184.	5.3	17
2	Effects of longitudinal disturbances on two-dimensional detonation waves. Physical Review Fluids, 2022, 7, .	2.5	9
3	Instability of wave complex resulting from oblique detonation decoupling. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	3.4	1
4	Numerical investigation on movement of triple points on oblique detonation surfaces. Physics of Fluids, 2022, 34, .	4.0	8
5	Unsteady dynamics of wedge-induced oblique detonations under periodic inflows. Physics of Fluids, 2021, 33, .	4.0	16
6	Two-Dimensional Metallic Vanadium Ditelluride as a High-Performance Electrode Material. ACS Nano, 2021, 15, 1858-1868.	14.6	49
7	Optogeneticsâ€Inspired Neuromorphic Optoelectronic Synaptic Transistors with Optically Modulated Plasticity. Advanced Optical Materials, 2021, 9, 2002232.	7.3	28
8	Bilayer of polyelectrolyte films for spontaneous power generation in air up to an integrated 1,000â€‰V output. Nature Nanotechnology, 2021, 16, 811-819.	31.5	193
9	Steadiness of wave complex induced by oblique detonation wave reflection before an expansion corner. Aerospace Science and Technology, 2021, 112, 106592.	4.8	15
10	Optical detection of the susceptibility tensor in two-dimensional crystals. Communications Physics, 2021, 4, .	5.3	26
11	Near-field relaxation subsequent to the onset of oblique detonations with a two-step kinetic model. Physics of Fluids, 2021, 33, 096106.	4.0	12
12	Effect of substrate symmetry on the orientations of MoS₂ monolayers. Nanotechnology, 2021, 32, 095601.	2.6	9
13	Numerical investigation of wavelet features in rotating detonations with a two-step induction-reaction model. International Journal of Hydrogen Energy, 2020, 45, 4991-5001.	7.1	28
14	Numerical investigation of flow structures resulting from the interaction between an oblique detonation wave and an upper expansion corner. Journal of Fluid Mechanics, 2020, 903, .	3.4	30
15	Scalable salt-templated directed synthesis of high-quality MoS2 nanosheets powders towards energetic and environmental applications. Nano Research, 2020, 13, 3098-3104.	10.4	24
16	Roles of salts in the chemical vapor deposition synthesis of two-dimensional transition metal chalcogenides. Dalton Transactions, 2020, 49, 10319-10327.	3.3	29
17	Two-Dimensional Metallic NiTe₂ with Ultrahigh Environmental Stability, Conductivity, and Electrocatalytic Activity. ACS Nano, 2020, 14, 9011-9020.	14.6	60
18	Salt-assisted growth and ultrafast photocarrier dynamics of large-sized monolayer ReSe2. Nano Research, 2020, 13, 667-675.	10.4	19

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19	Numerical study on reflection of an oblique detonation wave on an outward turning wall. Physics of Fluids, 2020, 32, 046101.	4.0	27
20	Direct Growth of Multiâ€Layer Graphene on Quartz Glass for Highâ€Performance Broadband Neutral Density Filter Applications. Advanced Optical Materials, 2020, 8, 2000166.	7.3	13
21	Flow and combustion mechanism of oblique detonation engines. Scientia Sinica: Physica, Mechanica Et Astronomica, 2020, 50, 090008.	0.4	2
22	Selfâ€Powered MoS₂â€“PDPP3T Heterotransistorâ€Based Broadband Photodetectors. Advanced Electronic Materials, 2019, 5, 1800580.	5.1	35
23	A numerical study on the instability of oblique detonation waves with a two-step inductionâ€“reaction kinetic model. Proceedings of the Combustion Institute, 2019, 37, 3537-3544.	3.9	48
24	Numerical study of wedge-induced oblique detonations in unsteady flow. Journal of Fluid Mechanics, 2019, 876, 264-287.	3.4	57
25	Anisotropic Growth and Scanning Tunneling Microscopy Identification of Ultrathin Evenâ€Layered PdSe₂ Ribbons. Small, 2019, 15, e1902789.	10.0	50
26	Scalable Production of Two-Dimensional Metallic Transition Metal Dichalcogenide Nanosheet Powders Using NaCl Templates toward Electrocatalytic Applications. Journal of the American Chemical Society, 2019, 141, 18694-18703.	13.7	56
27	Chemical Vapor Deposition Grown Large-Scale Atomically Thin Platinum Diselenide with Semimetalâ€“Semiconductor Transition. ACS Nano, 2019, 13, 8442-8451.	14.6	87
28	Thickness Tunable Wedding-Cake-like MoS₂ Flakes for High-Performance Optoelectronics. ACS Nano, 2019, 13, 3649-3658.	14.6	75
29	Intercalation-Mediated Synthesis and Interfacial Coupling Effect Exploration of Unconventional Graphene/PtSe₂ Vertical Heterostructures. ACS Applied Materials & Interfaces, 2019, 11, 48221-48229.	8.0	7
30	Space-confined growth of monolayer ReSe2 under a graphene layer on Au foils. Nano Research, 2019, 12, 149-157.	10.4	22
31	Batch production of 6-inch uniform monolayer molybdenum disulfide catalyzed by sodium in glass. Nature Communications, 2018, 9, 979.	12.8	338
32	Surface Plasmon Enhanced Strong Excitonâ€“Photon Coupling in Hybrid Inorganicâ€“Organic Perovskite Nanowires. Nano Letters, 2018, 18, 3335-3343.	9.1	133
33	Effects of inflow Mach number on oblique detonation initiation with a two-step induction-reaction kinetic model. Combustion and Flame, 2018, 193, 246-256.	5.2	89
34	Direct synthesis and in situ characterization of monolayer parallelogrammic rhenium diselenide on gold foil. Communications Chemistry, 2018, 1, .	4.5	58
35	Ultrafast Charge Transfer in Perovskite Nanowire/2D Transition Metal Dichalcogenide Heterostructures. Journal of Physical Chemistry Letters, 2018, 9, 1655-1662.	4.6	75
36	Application of chemical vaporâ€“deposited monolayer ReSe2 in the electrocatalytic hydrogen evolution reaction. Nano Research, 2018, 11, 1787-1797.	10.4	71

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37	Chemical Vapor Deposition Grown Waferâ€Scale 2D Tantalum Diselenide with Robust Chargeâ€Densityâ€Wave Order. Advanced Materials, 2018, 30, e1804616.	21.0	63
38	High-Temperature Continuous-Wave Pumped Lasing from Large-Area Monolayer Semiconductors Grown by Chemical Vapor Deposition. ACS Nano, 2018, 12, 9390-9396.	14.6	44
39	Transition Between Different Initiation Structures of Wedge-Induced Oblique Detonations. AIAA Journal, 2018, 56, 4016-4023.	2.6	22
40	Progress in Controllable Construction and Energyâ€Related Applications of MX₂/Graphene and MX₂/MX₂ Heterostructures. ChemNanoMat, 2017, 3, 340-351.	2.8	5
41	Vanadium Diselenide Single Crystals: Van der Waals Epitaxial Growth of 2D Metallic Vanadium Diselenide Single Crystals and their Extraâ€High Electrical Conductivity (Adv. Mater. 37/2017). Advanced Materials, 2017, 29, .	21.0	26
42	Surface State Mediated Interlayer Excitons in a 2D Nonlayeredâ€“Layered Semiconductor Heterojunction. Advanced Electronic Materials, 2017, 3, 1700373.	5.1	15
43	Initiation structure of oblique detonation waves behind conical shocks. Physics of Fluids, 2017, 29, .	4.0	38
44	Van der Waals Epitaxial Growth of 2D Metallic Vanadium Diselenide Single Crystals and their Extraâ€High Electrical Conductivity. Advanced Materials, 2017, 29, 1702359.	21.0	191
45	Reconstructing shock front of unstable detonations based on multi-layer perceptron. Acta Mechanica Sinica/Lixue Xuebao, 0, , 1.	3.4	2