

# Pengfei Yang

## List of Publications by Year in descending order

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45  
papers

2,222  
citations

218677

26  
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243625

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all docs

45  
docs citations

45  
times ranked

3200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Batch production of 6-inch uniform monolayer molybdenum disulfide catalyzed by sodium in glass. Nature Communications, 2018, 9, 979.	12.8	338
2	Bilayer of polyelectrolyte films for spontaneous power generation in air up to an integrated 1,000%V output. Nature Nanotechnology, 2021, 16, 811-819.	31.5	193
3	Van der Waals Epitaxial Growth of 2D Metallic Vanadium Diselenide Single Crystals and their Extra-High Electrical Conductivity. Advanced Materials, 2017, 29, 1702359.	21.0	191
4	Surface Plasmon Enhanced Strong Exciton-Photon Coupling in Hybrid Inorganic-Organic Perovskite Nanowires. Nano Letters, 2018, 18, 3335-3343.	9.1	133
5	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
6	Chemical Vapor Deposition Grown Large-Scale Atomically Thin Platinum Diselenide with Semimetal-Semiconductor Transition. ACS Nano, 2019, 13, 8442-8451.	14.6	87
7	Ultrafast Charge Transfer in Perovskite Nanowire/2D Transition Metal Dichalcogenide Heterostructures. Journal of Physical Chemistry Letters, 2018, 9, 1655-1662.	4.6	75
8	Thickness Tunable Wedding-Cake-like MoS <sub>2</sub> Flakes for High-Performance Optoelectronics. ACS Nano, 2019, 13, 3649-3658.	14.6	75
9	Application of chemical vapor-deposited monolayer ReSe <sub>2</sub> in the electrocatalytic hydrogen evolution reaction. Nano Research, 2018, 11, 1787-1797.	10.4	71
10	Chemical Vapor Deposition Grown Wafer-Scale 2D Tantalum Diselenide with Robust Charge-Density-Wave Order. Advanced Materials, 2018, 30, e1804616.	21.0	63
11	Two-Dimensional Metallic NiTe <sub>2</sub> with Ultrahigh Environmental Stability, Conductivity, and Electrocatalytic Activity. ACS Nano, 2020, 14, 9011-9020.	14.6	60
12	Direct synthesis and in situ characterization of monolayer parallelogrammic rhenium diselenide on gold foil. Communications Chemistry, 2018, 1, .	4.5	58
13	Numerical study of wedge-induced oblique detonations in unsteady flow. Journal of Fluid Mechanics, 2019, 876, 264-287.	3.4	57
14	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
15	Anisotropic Growth and Scanning Tunneling Microscopy Identification of Ultrathin Even-Layered PdSe <sub>2</sub> Ribbons. Small, 2019, 15, e1902789.	10.0	50
16	Two-Dimensional Metallic Vanadium DiteLLuride as a High-Performance Electrode Material. ACS Nano, 2021, 15, 1858-1868.	14.6	49
17	A numerical study on the instability of oblique detonation waves with a two-step induction-reaction kinetic model. Proceedings of the Combustion Institute, 2019, 37, 3537-3544.	3.9	48
18	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

#	ARTICLE	IF	CITATIONS
19	Initiation structure of oblique detonation waves behind conical shocks. <i>Physics of Fluids</i> , 2017, 29, .	4.0	38
20	Self-Powered MoS <sub>2</sub> PDPPT Heterotransistor-Based Broadband Photodetectors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800580.	5.1	35
21	Numerical investigation of flow structures resulting from the interaction between an oblique detonation wave and an upper expansion corner. <i>Journal of Fluid Mechanics</i> , 2020, 903, .	3.4	30
22	Roles of salts in the chemical vapor deposition synthesis of two-dimensional transition metal chalcogenides. <i>Dalton Transactions</i> , 2020, 49, 10319-10327.	3.3	29
23	Numerical investigation of wavelet features in rotating detonations with a two-step induction-reaction model. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4991-5001.	7.1	28
24	Optogenetics-Inspired Neuromorphic Optoelectronic Synaptic Transistors with Optically Modulated Plasticity. <i>Advanced Optical Materials</i> , 2021, 9, 2002232.	7.3	28
25	Numerical study on reflection of an oblique detonation wave on an outward turning wall. <i>Physics of Fluids</i> , 2020, 32, 046101.	4.0	27
26	Vanadium Diselenide Single Crystals: Van der Waals Epitaxial Growth of 2D Metallic Vanadium Diselenide Single Crystals and their Extra-High Electrical Conductivity ( <i>Adv. Mater.</i> 37/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	26
27	Optical detection of the susceptibility tensor in two-dimensional crystals. <i>Communications Physics</i> , 2021, 4, .	5.3	26
28	Scalable salt-templated directed synthesis of high-quality MoS <sub>2</sub> nanosheets powders towards energetic and environmental applications. <i>Nano Research</i> , 2020, 13, 3098-3104.	10.4	24
29	Transition Between Different Initiation Structures of Wedge-Induced Oblique Detonations. <i>AIAA Journal</i> , 2018, 56, 4016-4023.	2.6	22
30	Space-confined growth of monolayer ReSe <sub>2</sub> under a graphene layer on Au foils. <i>Nano Research</i> , 2019, 12, 149-157.	10.4	22
31	Salt-assisted growth and ultrafast photocarrier dynamics of large-sized monolayer ReSe <sub>2</sub> . <i>Nano Research</i> , 2020, 13, 667-675.	10.4	19
32	Oblique detonation wave triggered by a double wedge in hypersonic flow. <i>Chinese Journal of Aeronautics</i> , 2022, 35, 176-184.	5.3	17
33	Unsteady dynamics of wedge-induced oblique detonations under periodic inflows. <i>Physics of Fluids</i> , 2021, 33, .	4.0	16
34	Surface State Mediated Interlayer Excitons in a 2D Nonlayered Layered Semiconductor Heterojunction. <i>Advanced Electronic Materials</i> , 2017, 3, 1700373.	5.1	15
35	Steadiness of wave complex induced by oblique detonation wave reflection before an expansion corner. <i>Aerospace Science and Technology</i> , 2021, 112, 106592.	4.8	15
36	Direct Growth of Multi-Layer Graphene on Quartz Glass for High-Performance Broadband Neutral Density Filter Applications. <i>Advanced Optical Materials</i> , 2020, 8, 2000166.	7.3	13

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37	Near-field relaxation subsequent to the onset of oblique detonations with a two-step kinetic model. <i>Physics of Fluids</i> , 2021, 33, 096106.	4.0	12
38	Effect of substrate symmetry on the orientations of MoS <sub>2</sub> monolayers. <i>Nanotechnology</i> , 2021, 32, 095601.	2.6	9
39	Effects of longitudinal disturbances on two-dimensional detonation waves. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	9
40	Numerical investigation on movement of triple points on oblique detonation surfaces. <i>Physics of Fluids</i> , 2022, 34, .	4.0	8
41	Intercalation-Mediated Synthesis and Interfacial Coupling Effect Exploration of Unconventional Graphene/PtSe <sub>2</sub> Vertical Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 48221-48229.	8.0	7
42	Progress in Controllable Construction and Energy-Related Applications of MX <sub>2</sub> /Graphene and MX <sub>2</sub> /MX <sub>2</sub> Heterostructures. <i>ChemNanoMat</i> , 2017, 3, 340-351.	2.8	5
43	Reconstructing shock front of unstable detonations based on multi-layer perceptron. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 0, , 1.	3.4	2
44	Flow and combustion mechanism of oblique detonation engines. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2020, 50, 090008.	0.4	2
45	Instability of wave complex resulting from oblique detonation decoupling. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	3.4	1