

# Xiang Sun

## List of Publications by Year in descending order

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74  
papers

2,176  
citations

218592

26  
h-index

243529

44  
g-index

85  
all docs

85  
docs citations

85  
times ranked

1660  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical behaviours of gas-hydrate-bearing clayey sediments of the South China Sea. <i>Environmental Geotechnics</i> , 2022, 9, 210-222.	1.3	44
2	Mechanical properties of methane hydrate-bearing sandy sediments under various temperatures and pore pressures. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109474.	2.1	19
3	A reduced order method for nonlinear parameterized partial differential equations using dynamic mode decomposition coupled with k-nearest-neighbors regression. <i>Journal of Computational Physics</i> , 2022, 452, 110907.	1.9	11
4	Correlating Interfacial Charge Transfer Rates with Interfacial Molecular Structure in the Tetraphenylidibenzoperiflanthene/C <sub>70</sub> Organic Photovoltaic System. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 763-769.	2.1	4
5	Linear-Response and Nonlinear-Response Formulations of the Instantaneous Marcus Theory for Nonequilibrium Photoinduced Charge Transfer. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 2065-2079.	2.3	7
6	Thermochromic aggregation-induced dual phosphorescence via temperature-dependent sp <sup>3</sup> -linked donor-acceptor electronic coupling. <i>Nature Communications</i> , 2021, 12, 1364.	5.8	89
7	Non-intrusive reduced-order modeling for uncertainty quantification of space-time-dependent parameterized problems. <i>Computers and Mathematics With Applications</i> , 2021, 87, 50-64.	1.4	8
8	Experimental Study on Mechanical Properties of Hydrate-Bearing Sand: The Influence of Sand-Water Mixing Methods. <i>Energies</i> , 2021, 14, 2554.	1.6	7
9	Three-state harmonic models for photoinduced charge transfer. <i>Journal of Chemical Physics</i> , 2021, 154, 174105.	1.2	11
10	Effect of Ionizing Radiation on the Bacterial and Fungal Endophytes of the Halophytic Plant <i>Kalidium schrenkianum</i> . <i>Microorganisms</i> , 2021, 9, 1050.	1.6	7
11	CTRAMER: An open-source software package for correlating interfacial charge transfer rate constants with donor/acceptor geometries in organic photovoltaic materials. <i>Journal of Chemical Physics</i> , 2021, 154, 214108.	1.2	4
12	Non-intrusive framework of reduced-order modeling based on proper orthogonal decomposition and polynomial chaos expansion. <i>Journal of Computational and Applied Mathematics</i> , 2021, 390, 113372.	1.1	10
13	Influence of grain size distribution on the physical characteristics of cementing hydrate-bearing sediment. <i>Energy Reports</i> , 2021, 7, 8187-8197.	2.5	13
14	Study of the Physical Characteristics of a Pore-Filling Hydrate Reservoir: Particle Shape Effect. <i>Energy &amp; Fuels</i> , 2021, 35, 15502-15512.	2.5	7
15	Multi-state harmonic models with globally shared bath for nonadiabatic dynamics in the condensed phase. <i>Journal of Chemical Physics</i> , 2021, 155, 124105.	1.2	8
16	Specific network and phyllosymbiosis pattern in endophyte community of coastal halophytes. <i>Fungal Ecology</i> , 2021, 53, 101088.	0.7	3
17	Mechanical Characteristics of Hydrate-Bearing Sediment: A Review. <i>Energy &amp; Fuels</i> , 2021, 35, 1041-1057.	2.5	108
18	Structural Reconstruction of Optically Invisible State in a Single Molecule via Scanning Tunneling Microscope. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10034-10039.	2.1	3

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19	Forecasting nonadiabatic dynamics using hybrid convolutional neural network/long short-term memory network. <i>Journal of Chemical Physics</i> , 2021, 155, 224104.	1.2	13
20	Charge-Transfer Landscape Manifesting the Structure–Rate Relationship in the Condensed Phase via Machine Learning. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13267-13278.	1.2	11
21	Cementation Failure Behavior of Consolidated Gas Hydrate-Bearing Sand. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018623.	1.4	94
22	On the Interplay between Electronic Structure and Polarizable Force Fields When Calculating Solution-Phase Charge-Transfer Rates. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6481-6490.	2.3	6
23	Pore-Scale 3D Morphological Modeling and Physical Characterization of Hydrate-Bearing Sediment Based on Computed Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020570.	1.4	44
24	Experimental study on the permeability of methane hydrate-bearing sediments during triaxial loading. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 82, 103510.	2.1	19
25	Two-dimensional Raman spectroscopy of Lennard-Jones liquids via ring-polymer molecular dynamics. <i>Journal of Chemical Physics</i> , 2020, 153, 034117.	1.2	9
26	Charge transfer rate constants for the carotenoid-porphyrin-C60 molecular triad dissolved in tetrahydrofuran: The spin-boson model vs the linearized semiclassical approximation. <i>Journal of Chemical Physics</i> , 2020, 153, 044105.	1.2	25
27	Photoinduced Charge Transfer Dynamics in the Carotenoid–Porphyrin–C <sub>60</sub> Triad via the Linearized Semiclassical Nonequilibrium Fermi's Golden Rule. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9579-9591.	1.2	13
28	Significant host- and environment-dependent differentiation among highly sporadic fungal endophyte communities in cereal crops-related wild grasses. <i>Environmental Microbiology</i> , 2020, 22, 3357-3374.	1.8	32
29	Quantification of measurement error effects on conductivity reconstruction in electrical impedance tomography. <i>Inverse Problems in Science and Engineering</i> , 2020, 28, 1669-1693.	1.2	2
30	Molecular-Level Exploration of the Structure-Function Relations Underlying Interfacial Charge Transfer in the Subphthalocyanine/ $C_{60}$ Organic Photovoltaic System. <i>Physical Review Applied</i> , 2020, 13, .	1.5	14
31	Host identity is more important in structuring bacterial epiphytes than endophytes in a tropical mangrove forest. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	19
32	Effects of far-field boundary conditions on the simulation of hydrate production. <i>Environmental Geotechnics</i> , 2020, , 1-10.	1.3	1
33	Global sensitivity analysis for multivariate outputs using polynomial chaos-based surrogate models. <i>Applied Mathematical Modelling</i> , 2020, 82, 867-887.	2.2	20
34	Deformation behaviors of hydrate-bearing silty sediment induced by depressurization and thermal recovery. <i>Applied Energy</i> , 2020, 276, 115468.	5.1	40
35	Diversity and community of culturable endophytic fungi from stems and roots of desert halophytes in northwest China. <i>Mycosphere</i> , 2020, 62, 75-95.	0.8	30
36	Response of arbuscular mycorrhizal fungal community in soil and roots to grazing differs in a wetland on the Qinghai-Tibet plateau. <i>PeerJ</i> , 2020, 8, e9375.	0.9	6

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37	The effects of compressibility of natural gas hydrate-bearing sediments on gas production using depressurization. <i>Energy</i> , 2019, 185, 837-846.	4.5	64
38	A combinatory approach towards the design of organic polymer luminescent materials. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9917-9925.	2.7	24
39	Strength behaviors of CH <sub>4</sub> hydrate-bearing silty sediments during thermal decomposition. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 72, 103031.	2.1	41
40	A modified approach for simulating electronically nonadiabatic dynamics via the generalized quantum master equation. <i>Journal of Chemical Physics</i> , 2019, 150, 034101.	1.2	38
41	Numerical study of gas production from marine hydrate formations considering soil compression and hydrate dissociation due to depressurization. <i>Marine and Petroleum Geology</i> , 2019, 102, 759-774.	1.5	34
42	Effect of drought and season on arbuscular mycorrhizal fungi in a subtropical secondary forest. <i>Fungal Ecology</i> , 2019, 41, 107-115.	0.7	30
43	Numerical simulation of gas recovery from a low-permeability hydrate reservoir by depressurization. <i>Applied Energy</i> , 2019, 250, 7-18.	5.1	162
44	Late Quaternary climate change explains soil fungal community composition rather than fungal richness in forest ecosystems. <i>Ecology and Evolution</i> , 2019, 9, 6678-6692.	0.8	9
45	Creep Behaviors of Methane Hydrate-Bearing Frozen Sediments. <i>Energies</i> , 2019, 12, 251.	1.6	20
46	Strength Behaviors of Remolded Hydrate-Bearing Marine Sediments in Different Drilling Depths of the South China Sea. <i>Energies</i> , 2019, 12, 253.	1.6	14
47	Numerical modeling for the mechanical behavior of marine gas hydrate-bearing sediments during hydrate production by depressurization. <i>Journal of Petroleum Science and Engineering</i> , 2019, 177, 971-982.	2.1	85
48	Phyllosphere epiphytic and endophytic fungal community and network structures differ in a tropical mangrove ecosystem. <i>Microbiome</i> , 2019, 7, 57.	4.9	146
49	Hybrid equilibrium-nonequilibrium molecular dynamics approach for two-dimensional solute-pump/solvent-probe spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 151, 194507.	1.2	5
50	Generalized stress framework for unsaturated soil: demonstration and discussion. <i>Acta Geotechnica</i> , 2019, 14, 1459-1481.	2.9	16
51	Biocontrol Potential of Fungal Endophytes against <i>Fusarium oxysporum</i> f. sp. <i>cucumerinum</i> Causing Wilt in Cucumber. <i>Plant Pathology Journal</i> , 2019, 35, 598-608.	0.7	41
52	Experimental study on the gas phase permeability of montmorillonite sediments in the presence of hydrates. <i>Marine and Petroleum Geology</i> , 2018, 91, 373-380.	1.5	51
53	A comparative study of different methods for calculating electronic transition rates. <i>Journal of Chemical Physics</i> , 2018, 148, 102304.	1.2	18
54	<i>Capitulocladosporium clinodiplosidis</i> gen. et sp. nov., a hyphomyceteous ustilaginomycete from midge. <i>Mycological Progress</i> , 2018, 17, 307-318.	0.5	4

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55	Experimental study on the effect of methane hydrate decomposition on gas phase permeability of clayey sediments. <i>Applied Energy</i> , 2018, 230, 1304-1310.	5.1	86
56	A coupled thermal-hydraulic-mechanical-chemical (THMC) model for methane hydrate bearing sediments using COMSOL Multiphysics. <i>Journal of Zhejiang University: Science A</i> , 2018, 19, 600-623.	1.3	62
57	Effect of sediment particle size on the mechanical properties of CH <sub>4</sub> hydrate-bearing sediments. <i>Journal of Petroleum Science and Engineering</i> , 2018, 171, 302-314.	2.1	44
58	Uncertainty quantification of upstream wind effects on single-sided ventilation in a building using generalized polynomial chaos method. <i>Building and Environment</i> , 2017, 125, 153-167.	3.0	8
59	Effect of wind and buoyancy interaction on single-sided ventilation in a building. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 171, 380-389.	1.7	21
60	Experimental Study on the Mechanical Properties of CH <sub>4</sub> and CO <sub>2</sub> Hydrate Remodeling Cores in Qilian Mountain. <i>Energies</i> , 2017, 10, 2078.	1.6	10
61	A Method for Directly Measuring the Hydraulic Conductivity of Unsaturated Soil. <i>Geotechnical Testing Journal</i> , 2017, 40, 907-916.	0.5	14
62	<i>Dematiopyriforma aquilariagen. et sp. nov.</i> , a New Hyphomycetous Taxon from <i>Aquilaria crassna</i> . <i>Cryptogamie, Mycologie</i> , 2017, 38, 341-351.	0.2	4
63	Non-Condon nonequilibrium Fermi's golden rule rates from the linearized semiclassical method. <i>Journal of Chemical Physics</i> , 2016, 145, .	1.2	30
64	Community structure of endophytic fungi of four mangrove species in Southern China. <i>Mycology</i> , 2016, 7, 180-190.	2.0	37
65	Non-Condon equilibrium Fermi's golden rule electronic transition rate constants via the linearized semiclassical method. <i>Journal of Chemical Physics</i> , 2016, 144, 244105.	1.2	23
66	Drucker-Prager elasto-plastic constitutive model for methane hydrate-bearing sediment. <i>Transactions of Tianjin University</i> , 2016, 22, 441-450.	3.3	3
67	Phomopchalasins A and B, Two Cytochalasans with Polycyclic-Fused Skeletons from the Endophytic Fungus <i>Phomopsis</i> sp. shj2. <i>Organic Letters</i> , 2016, 18, 1108-1111.	2.4	87
68	A thermodynamics-based critical state constitutive model for methane hydrate bearing sediment. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 1024-1034.	2.1	39
69	A new endophytic fungus <i>Neofabraea illicii</i> isolated from <i>Illicium verum</i> . <i>Mycoscience</i> , 2015, 56, 332-339.	0.3	4
70	New $\hat{\pm}$ -pyrone and phthalide from the Xylariaceae fungus. <i>Journal of Asian Natural Products Research</i> , 2015, 17, 705-710.	0.7	6
71	Genomic and transcriptomic analysis of the endophytic fungus <i>Pestalotiopsis fici</i> reveals its lifestyle and high potential for synthesis of natural products. <i>BMC Genomics</i> , 2015, 16, 28.	1.2	102
72	<i>Pestalotiopsis yunnanensis</i> sp. nov., an endophyte from <i>Podocarpus macrophyllus</i> (Podocarpaceae) based on morphology and ITS sequence data. <i>Mycological Progress</i> , 2013, 12, 563-568.	0.5	11

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73	Boundedness of solutions for a class of impact oscillators with time-dependent polynomial potentials. <i>Communications on Pure and Applied Analysis</i> , 2013, 13, 645-655.	0.4	0
74	Micronematobotrys, a new genus and its phylogenetic placement based on rDNA sequence analyses. <i>Mycological Progress</i> , 2010, 9, 567-574.	0.5	22