Xiang Sun

List of Publications by Year in descending order

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		218592	243529
74	2,176	26	44
papers	citations	h-index	g-index

85	85	85	1660
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical simulation of gas recovery from a low-permeability hydrate reservoir by depressurization. Applied Energy, 2019, 250, 7-18.	5.1	162
2	Phyllosphere epiphytic and endophytic fungal community and network structures differ in a tropical mangrove ecosystem. Microbiome, 2019, 7, 57.	4.9	146
3	Mechanical Characteristics of Hydrate-Bearing Sediment: A Review. Energy & Fuels, 2021, 35, 1041-1057.	2.5	108
4	Genomic and transcriptomic analysis of the endophytic fungus Pestalotiopsis fici reveals its lifestyle and high potential for synthesis of natural products. BMC Genomics, 2015, 16, 28.	1.2	102
5	Cementation Failure Behavior of Consolidated Gas Hydrateâ€Bearing Sand. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018623.	1.4	94
6	Thermochromic aggregation-induced dual phosphorescence via temperature-dependent sp3-linked donor-acceptor electronic coupling. Nature Communications, 2021, 12, 1364.	5.8	89
7	Phomopchalasins A and B, Two Cytochalasans with Polycyclic-Fused Skeletons from the Endophytic Fungus Phomopsis sp. shj2. Organic Letters, 2016, 18, 1108-1111.	2.4	87
8	Experimental study on the effect of methane hydrate decomposition on gas phase permeability of clayey sediments. Applied Energy, 2018, 230, 1304-1310.	5.1	86
9	Numerical modeling for the mechanical behavior of marine gas hydrate-bearing sediments during hydrate production by depressurization. Journal of Petroleum Science and Engineering, 2019, 177, 971-982.	2.1	85
10	The effects of compressibility of natural gas hydrate-bearing sediments on gas production using depressurization. Energy, 2019, 185, 837-846.	4.5	64
11	A coupled thermalâ€“hydraulicâ€“mechanicalâ€“chemical (THMC) model for methane hydrate bearing sediments using COMSOL Multiphysics. Journal of Zhejiang University: Science A, 2018, 19, 600-623.	1.3	62
12	Experimental study on the gas phase permeability of montmorillonite sediments in the presence of hydrates. Marine and Petroleum Geology, 2018, 91, 373-380.	1.5	51
13	Effect of sediment particle size on the mechanical properties of CH4 hydrate-bearing sediments. Journal of Petroleum Science and Engineering, 2018, 171, 302-314.	2.1	44
14	Mechanical behaviours of gas-hydrate-bearing clayey sediments of the South China Sea. Environmental Geotechnics, 2022, 9, 210-222.	1.3	44
15	Poreâ€Scale 3D Morphological Modeling and Physical Characterization of Hydrateâ€Bearing Sediment Based on Computed Tomography. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020570.	1.4	44
16	Strength behaviors of CH4 hydrate-bearing silty sediments during thermal decomposition. Journal of Natural Gas Science and Engineering, 2019, 72, 103031.	2.1	41
17	Biocontrol Potential of Fungal Endophytes against Fusarium oxysporum f. sp. cucumerinum Causing Wilt in Cucumber. Plant Pathology Journal, 2019, 35, 598-608.	0.7	41
18	Deformation behaviors of hydrate-bearing silty sediment induced by depressurization and thermal recovery. Applied Energy, 2020, 276, 115468.	5.1	40

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19	A thermodynamics-based critical state constitutive model for methane hydrate bearing sediment. Journal of Natural Gas Science and Engineering, 2015, 27, 1024-1034.	2.1	39
20	A modified approach for simulating electronically nonadiabatic dynamics via the generalized quantum master equation. Journal of Chemical Physics, 2019, 150, 034101.	1.2	38
21	Community structure of endophytic fungi of four mangrove species in Southern China. Mycology, 2016, 7, 180-190.	2.0	37
22	Numerical study of gas production from marine hydrate formations considering soil compression and hydrate dissociation due to depressurization. Marine and Petroleum Geology, 2019, 102, 759-774.	1.5	34
23	Significant hostâ€•and environmentâ€dependent differentiation among highly sporadic fungal endophyte communities in cereal cropsâ€•related wild grasses. Environmental Microbiology, 2020, 22, 3357-3374.	1.8	32
24	Non-Condon nonequilibrium Fermiâ€™s golden rule rates from the linearized semiclassical method. Journal of Chemical Physics, 2016, 145, .	1.2	30
25	Effect of drought and season on arbuscular mycorrhizal fungi in a subtropical secondary forest. Fungal Ecology, 2019, 41, 107-115.	0.7	30
26	Diversity and community of culturable endophytic fungi from stems and roots of desert halophytes in northwest China. MycoKeys, 2020, 62, 75-95.	0.8	30
27	Charge transfer rate constants for the carotenoid-porphyrin-C60 molecular triad dissolved in tetrahydrofuran: The spin-boson model vs the linearized semiclassical approximation. Journal of Chemical Physics, 2020, 153, 044105.	1.2	25
28	A combinatory approach towards the design of organic polymer luminescent materials. Journal of Materials Chemistry C, 2019, 7, 9917-9925.	2.7	24
29	Non-Condon equilibrium Fermiâ€™s golden rule electronic transition rate constants via the linearized semiclassical method. Journal of Chemical Physics, 2016, 144, 244105.	1.2	23
30	Micronematobotrys, a new genus and its phylogenetic placement based on rDNA sequence analyses. Mycological Progress, 2010, 9, 567-574.	0.5	22
31	Effect of wind and buoyancy interaction on single-sided ventilation in a building. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 171, 380-389.	1.7	21
32	Creep Behaviors of Methane Hydrate-Bearing Frozen Sediments. Energies, 2019, 12, 251.	1.6	20
33	Global sensitivity analysis for multivariate outputs using polynomial chaos-based surrogate models. Applied Mathematical Modelling, 2020, 82, 867-887.	2.2	20
34	Experimental study on the permeability of methane hydrate-bearing sediments during triaxial loading. Journal of Natural Gas Science and Engineering, 2020, 82, 103510.	2.1	19
35	Host identity is more important in structuring bacterial epiphytes than endophytes in a tropical mangrove forest. FEMS Microbiology Ecology, 2020, 96, .	1.3	19
36	Mechanical properties of methane hydrate-bearing sandy sediments under various temperatures and pore pressures. Journal of Petroleum Science and Engineering, 2022, 208, 109474.	2.1	19

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37	A comparative study of different methods for calculating electronic transition rates. Journal of Chemical Physics, 2018, 148, 102304.	1.2	18
38	Generalized stress framework for unsaturated soil: demonstration and discussion. Acta Geotechnica, 2019, 14, 1459-1481.	2.9	16
39	Strength Behaviors of Remolded Hydrate-Bearing Marine Sediments in Different Drilling Depths of the South China Sea. Energies, 2019, 12, 253.	1.6	14
40	Molecular-Level Exploration of the Structure-Function Relations Underlying Interfacial Charge Transfer in the Subphthalocyanine/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>60</mml:mn></mml:msub></mml:math> Organic Photovoltaic System. Physical Review Applied, 2020, 13, .	1.5	14
41	A Method for Directly Measuring the Hydraulic Conductivity of Unsaturated Soil. Geotechnical Testing Journal, 2017, 40, 907-916.	0.5	14
42	Photoinduced Charge Transfer Dynamics in the Carotenoidâ€“Porphyrinâ€“C₆₀ Triad via the Linearized Semiclassical Nonequilibrium Fermiâ€™s Golden Rule. Journal of Physical Chemistry B, 2020, 124, 9579-9591.	1.2	13
43	Influence of grain size distribution on the physical characteristics of cementing hydrate-bearing sediment. Energy Reports, 2021, 7, 8187-8197.	2.5	13
44	Forecasting nonadiabatic dynamics using hybrid convolutional neural network/long short-term memory network. Journal of Chemical Physics, 2021, 155, 224104.	1.2	13
45	Pestalotiopsis yunnanensis sp. nov., an endophyte from Podocarpus macrophyllus (Podocarpaceae) based on morphology and ITS sequence data. Mycological Progress, 2013, 12, 563-568.	0.5	11
46	Three-state harmonic models for photoinduced charge transfer. Journal of Chemical Physics, 2021, 154, 174105.	1.2	11
47	Charge-Transfer Landscape Manifesting the Structureâ€“Rate Relationship in the Condensed Phase Via Machine Learning. Journal of Physical Chemistry B, 2021, 125, 13267-13278.	1.2	11
48	A reduced order method for nonlinear parameterized partial differential equations using dynamic mode decomposition coupled with k-nearest-neighbors regression. Journal of Computational Physics, 2022, 452, 110907.	1.9	11
49	Experimental Study on the Mechanical Properties of CH4 and CO2 Hydrate Remodeling Cores in Qilian Mountain. Energies, 2017, 10, 2078.	1.6	10
50	Non-intrusive framework of reduced-order modeling based on proper orthogonal decomposition and polynomial chaos expansion. Journal of Computational and Applied Mathematics, 2021, 390, 113372.	1.1	10
51	Late Quaternary climate change explains soil fungal community composition rather than fungal richness in forest ecosystems. Ecology and Evolution, 2019, 9, 6678-6692.	0.8	9
52	Two-dimensional Raman spectroscopy of Lennard-Jones liquids via ring-polymer molecular dynamics. Journal of Chemical Physics, 2020, 153, 034117.	1.2	9
53	Uncertainty quantification of upstream wind effects on single-sided ventilation in a building using generalized polynomial chaos method. Building and Environment, 2017, 125, 153-167.	3.0	8
54	Non-intrusive reduced-order modeling for uncertainty quantification of spaceâ€“time-dependent parameterized problems. Computers and Mathematics With Applications, 2021, 87, 50-64.	1.4	8

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55	Multi-state harmonic models with globally shared bath for nonadiabatic dynamics in the condensed phase. Journal of Chemical Physics, 2021, 155, 124105.	1.2	8
56	Linear-Response and Nonlinear-Response Formulations of the Instantaneous Marcus Theory for Nonequilibrium Photoinduced Charge Transfer. Journal of Chemical Theory and Computation, 2021, 17, 2065-2079.	2.3	7
57	Experimental Study on Mechanical Properties of Hydrate-Bearing Sand: The Influence of Sand-Water Mixing Methods. Energies, 2021, 14, 2554.	1.6	7
58	Effect of Ionizing Radiation on the Bacterial and Fungal Endophytes of the Halophytic Plant Kalidium schrenkianum. Microorganisms, 2021, 9, 1050.	1.6	7
59	Study of the Physical Characteristics of a Pore-Filling Hydrate Reservoir: Particle Shape Effect. Energy & Fuels, 2021, 35, 15502-15512.	2.5	7
60	New Î±-pyrone and phthalide from the Xylariaceae fungus. Journal of Asian Natural Products Research, 2015, 17, 705-710.	0.7	6
61	On the Interplay between Electronic Structure and Polarizable Force Fields When Calculating Solution-Phase Charge-Transfer Rates. Journal of Chemical Theory and Computation, 2020, 16, 6481-6490.	2.3	6
62	Response of arbuscular mycorrhizal fungal community in soil and roots to grazing differs in a wetland on the Qinghai-Tibet plateau. PeerJ, 2020, 8, e9375.	0.9	6
63	Hybrid equilibrium-nonequilibrium molecular dynamics approach for two-dimensional solute-pump/solvent-probe spectroscopy. Journal of Chemical Physics, 2019, 151, 194507.	1.2	5
64	A new endophytic fungus Neofabraea illicii isolated from Illicium verum. Mycoscience, 2015, 56, 332-339.	0.3	4
65	Capitulocladosporium clinodiplosidis gen. et sp. nov., a hyphomyceteous ustilaginomycete from midge. Mycological Progress, 2018, 17, 307-318.	0.5	4
66	CTRAMER: An open-source software package for correlating interfacial charge transfer rate constants with donor/acceptor geometries in organic photovoltaic materials. Journal of Chemical Physics, 2021, 154, 214108.	1.2	4
67	Dematipyriforma aquilariagen. et sp. nov., a New Hyphomycetous Taxon fromAquilaria crassna. Cryptogamie, Mycologie, 2017, 38, 341-351.	0.2	4
68	Correlating Interfacial Charge Transfer Rates with Interfacial Molecular Structure in the Tetraphenyldibenzoperiflanthene/C₇₀ Organic Photovoltaic System. Journal of Physical Chemistry Letters, 2022, 13, 763-769.	2.1	4
69	Drucker-Prager elasto-plastic constitutive model for methane hydrate-bearing sediment. Transactions of Tianjin University, 2016, 22, 441-450.	3.3	3
70	Specific network and phylosymbiosis pattern in endophyte community of coastal halophytes. Fungal Ecology, 2021, 53, 101088.	0.7	3
71	Structural Reconstruction of Optically Invisible State in a Single Molecule via Scanning Tunneling Microscope. Journal of Physical Chemistry Letters, 2021, 12, 10034-10039.	2.1	3
72	Quantification of measurement error effects on conductivity reconstruction in electrical impedance tomography. Inverse Problems in Science and Engineering, 2020, 28, 1669-1693.	1.2	2

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73	Effects of far-field boundary conditions on the simulation of hydrate production. Environmental Geotechnics, 2020, , 1-10.	1.3	1
74	Boundedness of solutions for a class of impact oscillators with time-denpendent polynomial potentials. Communications on Pure and Applied Analysis, 2013, 13, 645-655.	0.4	0