Dong Tian

List of Publications by Year
in descending order

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39 papers	1,907 citations	331670 21 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	2006 citing authors

#	Article	IF	Citations
1	Designed oxygen carriers from macroporous LaFeO3 supported CeO2 for chemical-looping reforming of methane. Applied Catalysis B: Environmental, 2017, 202, 51-63.	20.2	306
2	Achieving Efficient Alkaline Hydrogen Evolution Reaction over a Ni₅P₄ Catalyst Incorporating Singleâ€Atomic Ru Sites. Advanced Materials, 2020, 32, e1906972.	21.0	281
3	Structure dependence and reaction mechanism of CO oxidation: A model study on macroporous CeO2 and CeO2-ZrO2 catalysts. Journal of Catalysis, 2016, 344, 365-377.	6.2	148
4	Density functional theory studies of transition metal carbides and nitrides as electrocatalysts. Chemical Society Reviews, 2021, 50, 12338-12376.	38.1	103
5	Transition Metal Nitrides as Promising Catalyst Supports for Tuning CO/H₂Syngas Production from Electrochemical CO₂Reduction. Angewandte Chemie - International Edition, 2020, 59, 11345-11348.	13.8	100
6	Impact of time delays on stochastic resonance in an ecological system describing vegetation. Physica A: Statistical Mechanics and Its Applications, 2014, 408, 96-105.	2.6	89
7	Noises-induced regime shifts and -enhanced stability under a model of lake approaching eutrophication. Ecological Complexity, 2015, 22, 102-108.	2.9	68
8	DFT insights into oxygen vacancy formation and CH₄ activation over CeO₂ surfaces modified by transition metals (Fe, Co and Ni). Physical Chemistry Chemical Physics, 2018, 20, 11912-11929.	2.8	64
9	Enhanced CH₄ and CO Oxidation over Ce_{1â€“x}Fe_xO_{2â^Î´} Hybrid Catalysts by Tuning the Lattice Distortion and the State of Surface Iron Species. ACS Applied Materials & Interfaces, 2019, 11, 19227-19241.	8.0	64
10	Interfacial Active Sites for CO2 Assisted Selective Cleavage of Câ€“C/Câ€“H Bonds in Ethane. CheM, 2020, 6, 2703-2716.	11.7	57
11	Ce1-xFexO2-Î´ catalysts for catalytic methane combustion: Role of oxygen vacancy and structural dependence. Catalysis Today, 2018, 318, 73-85.	4.4	55
12	Electrochemical reduction of acetonitrile to ethylamine. Nature Communications, 2021, 12, 1949.	12.8	47
13	Effect of transition metal Fe adsorption on CeO 2 (110) surface in the methane activation and oxygen vacancy formation: A density functional theory study. Applied Surface Science, 2017, 416, 547-564.	6.1	41
14	Performance of cubic ZrO2 doped CeO2: First-principles investigation on elastic, electronic and optical properties of Ce1â^' Zr O2. Journal of Alloys and Compounds, 2016, 671, 208-219.	5.5	39
15	Ce-Fe-Zr-O/MgO coated monolithic oxygen carriers for chemical looping reforming of methane to co-produce syngas and H2. Chemical Engineering Journal, 2020, 388, 124190.	12.7	39
16	A DFT study of the structural, electronic and optical properties of transition metal doped fluorite oxides: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0010.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Ce</mml:mi></mml:mrow><mml:mrow><mml:mn>0.75</mml:mn></mml:mrow> mathvariant="normal">M</mml:mi></mml:mrow><mml:mrow><mml:mn>0.25</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>. Solid State Communications, 2016, 231-232, 68-79.	2.1	34
17	Delay and noise induced regime shift and enhanced stability in gene expression dynamics. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P12015.	2.3	31
18	Chemical looping combustion of methane in a large laboratory unit: Model study on the reactivity and effective utilization of typical oxygen carriers. Chemical Engineering Journal, 2017, 328, 382-396.	12.7	30

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19	Optimization of Ni-Based Catalysts for Dry Reforming of Methane via Alloy Design: A Review. Energy & Fuels, 2022, 36, 5102-5151.	5.1	29
20	Noises- and delay-enhanced stability in a bistable dynamical system describing chemical reaction. European Physical Journal B, 2014, 87, 1.	1.5	24
21	Enhanced performance of chemical looping combustion of methane by combining oxygen carriers via optimizing the stacking sequences. Applied Energy, 2018, 230, 696-711.	10.1	22
22	The mechanism of photocatalyst and the effects of co-doping CeO2 on refractive index and reflectivity from DFT calculation. Computational Materials Science, 2019, 158, 197-208.	3.0	21
23	Tailoring of crystalline structure of carbon nitride for superior photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2019, 556, 324-334.	9.4	20
24	Enhanced resistance to carbon deposition in chemical-looping combustion of methane: Synergistic effect of different oxygen carriers via sequence filling. Chemical Engineering Journal, 2021, 421, 129776.	12.7	20
25	Stochastic delayed monomer-dimer surface reaction model with various dimer adsorption. European Physical Journal B, 2014, 87, 1.	1.5	19
26	Surface amorphous carbon doping of carbon nitride for efficient acceleration of electron transfer to boost photocatalytic activities. Applied Surface Science, 2020, 507, 145145.	6.1	19
27	Delays-based protein switches in a stochastic single-gene network. Physica A: Statistical Mechanics and Its Applications, 2015, 434, 68-83.	2.6	17
28	Exploring electrocatalytic stability and activity of unmodified and platinum-modified tungsten and niobium nitrides. International Journal of Hydrogen Energy, 2020, 45, 22883-22892.	7.1	17
29	Suppressing byproduct formation for high selective CO2 reduction over optimized Ni/TiO2 based catalysts. Journal of Energy Chemistry, 2022, 72, 465-478.	12.9	17
30	Modification of KNO₃ on the reducibility and reactivity of Fe₂O₃â€based oxygen carriers for chemicalâ€looping combustion of methane. Canadian Journal of Chemical Engineering, 2017, 95, 1569-1578.	1.7	15
31	Noises-induced toggle switch and stability in a gene regulation network. International Journal of Modern Physics B, 2014, 28, 1450223.	2.0	13
32	First-principles study the behavior of oxygen vacancy on the surface of ZrO 2 and Zr 0.97 M 0.03 O 2. Computational Condensed Matter, 2017, 11, 1-10.	2.1	13
33	Transition Metal Nitrides as Promising Catalyst Supports for Tuning CO/H 2 Syngas Production from Electrochemical CO 2 Reduction. Angewandte Chemie, 2020, 132, 11441-11444.	2.0	11
34	Water splitting for hydrogen generation over lanthanum-calcium-iron perovskite-type membrane driven by reducing atmosphere. International Journal of Hydrogen Energy, 2017, 42, 19776-19787.	7.1	10
35	Effect of Fe doping concentration on photocatalytic performance of CeO2 from DFT insight into analysis. AIP Advances, 2019, 9, .	1.3	10
36	Theoretical investigation the growth of Fe3Si on GaAs: Stability and electronic properties of Fe3Si/GaAs(0 0 1), (1 1 0) via DFT. Applied Surface Science, 2020, 506, 144691.	6.1	6

#	Article	IF	Citations
37	Insights into the influence of functional groups on the properties of graphene from firstâ€principles calculations. Journal of Physical Organic Chemistry, 2022, 35, .	1.9	2
38	Hydrostatic pressures effect on structure stability, electronic, optical and elastic properties of rutile VO₂ doped TiO₂ by density functional theory investigation. Materials Research Express, 2019, 6, 0965c2.	1.6	1
39	Modeling and simulation of dual-three-phase induction machine with two opened phases. , 2008, , .		0