Xiaoyan Sun

List of Publications by Year
in descending order

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48 papers	3,416 citations	218677 26 h-index	206112 48 g-index
53 all docs	53 docs citations	53 times ranked	6035 citing authors

#	Article	IF	Citations
1	Single-Cell Transcriptome Profiling of Human Pancreatic Islets in Health and Type 2 Diabetes. Cell Metabolism, 2016, 24, 593-607.	16.2	1,173
2	Single-Cell Transcriptomics Reveals that Differentiation and Spatial Signatures Shape Epidermal and Hair Follicle Heterogeneity. Cell Systems, 2016, 3, 221-237.e9.	6.2	332
3	A radical switch in clonality reveals a stem cell niche in the epiphyseal growth plate. Nature, 2019, 567, 234-238.	27.8	153
4	Revealing the Origin of Activity in Nitrogenâ€Doped Nanocarbons towards Electrocatalytic Reduction of Carbon Dioxide. ChemSusChem, 2016, 9, 1085-1089.	6.8	143
5	Single-Cell Transcriptomics of Traced Epidermal and Hair Follicle Stem Cells Reveals Rapid Adaptations during Wound Healing. Cell Reports, 2018, 25, 585-597.e7.	6.4	137
6	Catalysis by hybrid sp²/sp³nanodiamonds and their role in the design of advanced nanocarbon materials. Chemical Society Reviews, 2018, 47, 8438-8473.	38.1	130
7	Hybrid Nanocarbon as a Catalyst for Direct Dehydrogenation of Propane: Formation of an Active and Selective Coreâ€“Shell sp²/sp³ Nanocomposite Structure. Chemistry - A European Journal, 2014, 20, 6324-6331.	3.3	107
8	Unexpected Mechanistic Variants in the Thermal Gas-Phase Activation of Methane. Organometallics, 2017, 36, 8-17.	2.3	91
9	Wastewater-Enhanced Microbial Corrosion of Concrete Sewers. Environmental Science & Technology, 2016, 50, 8084-8092.	10.0	85
10	Identification of controlling factors for the initiation of corrosion of fresh concrete sewers. Water Research, 2015, 80, 30-40.	11.3	78
11	Control of Product Distribution and Mechanism by Ligation and Electric Field in the Thermal Activation of Methane. Angewandte Chemie - International Edition, 2017, 56, 10219-10223.	13.8	68
12	A Heterogeneous Metalâ€Free Catalyst for Hydrogenation: Lewis Acidâ€“Base Pairs Integrated into a Carbon Lattice. Angewandte Chemie - International Edition, 2018, 57, 13800-13804.	13.8	64
13	Insight into the Enhanced Selectivity of Phosphate-Modified Annealed Nanodiamond for Oxidative Dehydrogenation Reactions. ACS Catalysis, 2015, 5, 2436-2444.	11.2	58
14	A comprehensive laboratory assessment of the effects of sewer-dosed iron salts on wastewater treatment processes. Water Research, 2018, 146, 109-117.	11.3	56
15	A novel and simple treatment for control of sulfide induced sewer concrete corrosion using free nitrous acid. Water Research, 2015, 70, 279-287.	11.3	51
16	Stability of Illicit Drugs as Biomarkers in Sewers: From Lab to Reality. Environmental Science & Technology, 2018, 52, 1561-1570.	10.0	50
17	New insights into the oxidative dehydrogenation of propane on borate-modified nanodiamond. Chemical Communications, 2015, 51, 9145-9148.	4.1	49
18	The Unique Role of CaO in Stabilizing the Pt/Al₂O₃ Catalyst for the Dehydrogenation of Cyclohexane. ChemCatChem, 2012, 4, 1376-1381.	3.7	40

#	Article	IF	Citations
19	Oxygen breaks into carbon nanotubes and abstracts hydrogen from propane. Carbon, 2016, 96, 631-640.	10.3	38
20	LCB 03-0110, a Novel Pan-Discoidin Domain Receptor/c-Src Family Tyrosine Kinase Inhibitor, Suppresses Scar Formation by Inhibiting Fibroblast and Macrophage Activation. Journal of Pharmacology and Experimental Therapeutics, 2012, 340, 510-519.	2.5	33
21	A rapid, non-destructive methodology to monitor activity of sulfide-induced corrosion of concrete based on H2S uptake rate. Water Research, 2014, 59, 229-238.	11.3	32
22	Interaction between Palladium Nanoparticles and Surfaceâ€Modified Carbon Nanotubes: Role of Surface Functionalities. ChemCatChem, 2014, 6, 2607-2612.	3.7	30
23	Effects of surface washing on the mitigation of concrete corrosion under sewer conditions. Cement and Concrete Composites, 2016, 68, 88-95.	10.7	30
24	Evolution and Reactivity of Active Oxygen Species on sp²@sp³ Coreâ€“Shell Carbon for the Oxidative Dehydrogenation Reaction. ChemCatChem, 2014, 6, 2270-2275.	3.7	29
25	The Effect of Different Phosphorus Chemical States on an Onionâ€like Carbon Surface for the Oxygen Reduction Reaction. ChemSusChem, 2015, 8, 2872-2876.	6.8	29
26	Impact of fluctuations in gaseous H 2 S concentrations on sulfide uptake by sewer concrete: The effect of high H 2 S loads. Water Research, 2015, 81, 84-91.	11.3	28
27	Coordinated hedgehog signaling induces new hair follicles in adult skin. ELife, 2020, 9, .	6.0	27
28	The Electric Field as a â€œSmartâ€•Ligand in Controlling the Thermal Activation of Methane and Molecular Hydrogen. Angewandte Chemie - International Edition, 2018, 57, 14635-14639.	13.8	25
29	Oriented external electric fields as mimics for probing the role of metal ions and ligands in the thermal gas-phase activation of methane. Dalton Transactions, 2018, 47, 15271-15277.	3.3	23
30	A high-efficiency, two-dimensional gel electrophoresis platform for mature leaves of grass pea (Lathyrus sativus L.). Acta Physiologiae Plantarum, 2011, 33, 2387-2397.	2.1	21
31	Insight into the mechanism of nanodiamond catalysed decomposition of methane molecules. Physical Chemistry Chemical Physics, 2014, 16, 4488-4491.	2.8	21
32	On the Remarkable Role of the Nitrogen Ligand in the Gasâ€Phase Redox Reaction of the N₂O/CO Couple Catalyzed by [NbN]⁺. Angewandte Chemie - International Edition, 2019, 58, 3635-3639.	13.8	16
33	On the Origin of the Distinctly Different Reactivity of Ruthenium in [MO]⁺/CH₄ Systems (M=Fe, Ru, Os). Angewandte Chemie - International Edition, 2018, 57, 5934-5937.	13.8	15
34	Direct Roomâ€Temperature Conversion of Methane into Protonated Formaldehyde: The Gasâ€Phase Chemistry of Mercury among the Zinc Triad Oxide Cations. Angewandte Chemie - International Edition, 2018, 57, 3251-3255.	13.8	15
35	Low Stability and a ConservedN-Glycosylation Site Are Associated with Regulation of the Discoidin Domain Receptor Family by GlucoseviaPost-TranslationalN-Glycosylation. Bioscience, Biotechnology and Biochemistry, 2013, 77, 1907-1916.	1.3	13
36	Efficient Roomâ€Temperature Methane Activation by the Closedâ€Shell, Metalâ€Free Cluster [OSiOH]⁺: A Novel Mechanistic Variant. Chemistry - A European Journal, 2016, 22, 14257-14263.	3.3	13

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37	Metalâ€Free, Roomâ€Temperature Oxygenâ€Atom Transfer in the N 2 O/CO Redox Couple as Catalyzed by [Si 2 O x] .+ (x =2 â€“ 5). Angewandte Chemie - International Edition, 2017, 56, 9990-9993.	13.8	13
38	Selective Nitrogenâ€Atom Transfer Driven by a Highly Efficient Intersystem Crossing in the [CeON]⁺/CH₄ System. Angewandte Chemie - International Edition, 2018, 57, 15902-15906.	13.8	12
39	Periodic deprivation of gaseous hydrogen sulfide affects the activity of the concrete corrosion layer in sewers. Water Research, 2019, 157, 463-471.	11.3	12
40	Thermal Activation of CH₄ and H₂ as Mediated by the Ruthenium Oxide Cluster Ions [RuO_x]⁺ (x1â€“3): On the Influence of Oxidation States. Chemistry - A European Journal, 2019, 25, 3550-3559.	3.3	11
41	Thermal Methane Activation by the Metalâ€Free Cluster Cation [Si₂O₄]^{.+}. Chemistry - A European Journal, 2017, 23, 1498-1501.	3.3	10
42	Tuning the Reactivities of the Heteronuclear [Al_nV_{3â€“n}O_{7â€“n}]⁺ (n1,â€¦2) Cluster Oxides towards Methane by Varying the Composition of the Metal Centers. Chemistry - A European Journal, 2019, 25, 2967-2971.	3.3	10
43	Selective Câ€“O Coupling Hidden in the Thermal Reaction of [Al₂CuO₅]⁺ with Methane. Chemistry - A European Journal, 2018, 24, 14649-14653.	3.3	8
44	Thermal Methane Activation by [Si₂O₅]^{.+} and [Si₂O₅H₂]^{.+}: Reactivity Enhancement by Hydrogenation. Angewandte Chemie - International Edition, 2016, 55, 13345-13348.	13.8	7
45	Ãœber die Ursachen der deutlich unterschiedlichen ReaktivitÃt von Ruthenium unter den [MO]⁺/CH₄â€Systemen (M=Fe, Ru, Os). Angewandte Chemie, 2018, 130, 6039-6043.	2.0	5
46	Mechanistic aspects of methane activation promoted by [MO3]+ (Mâ€‰=â€‰Mn, Re). International Journal of Mass Spectrometry, 2018, 434, 240-245.	1.5	4
47	Topical application of ALK5 inhibitor A-83-01 reduces burn wound contraction in rats by suppressing myofibroblast population. Bioscience, Biotechnology and Biochemistry, 2014, 78, 1805-1812.	1.3	3
48	Coordinated Hedgehog Signaling Induces De Novo Hair Follicles in Primed Epithelial Structures. SSRN Electronic Journal, 0, , .	0.4	0