Yaan Cao

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Improved photocatalytic activity of Sn4+ doped TiO2 nanoparticulate films prepared by plasma-enhanced chemical vapor deposition. New Journal of Chemistry, 2004, 28, 218.	2.8	212
2	Great Enhancement of Photocatalytic Activity of Nitrogen-Doped Titania by Coupling with Tungsten Oxide. Journal of Physical Chemistry B, 2006, 110, 14391-14397.	2.6	194
3	Unique Surface Chemical Species on Indium Doped TiO ₂ and Their Effect on the Visible Light Photocatalytic Activity. Journal of Physical Chemistry C, 2009, 113, 20912-20917.	3.1	187
4	Fabrication of Rutile TiO ₂ â^'Sn/Anatase TiO ₂ â^'N Heterostructure and Its Application in Visible-Light Photocatalysis. Journal of Physical Chemistry C, 2010, 114, 3627-3633.	3.1	145
5	Structure and Phase Transition Behavior of Sn ⁴⁺ -Doped TiO ₂ Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 18121-18124.	3.1	110
6	Improved visible light photocatalytic activity of titania doped with tin and nitrogen. Journal of Materials Chemistry, 2011, 21, 144-150.	6.7	106
7	Doping Behavior of Zr ⁴⁺ lons in Zr ⁴⁺ -Doped TiO ₂ Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 27120-27126.	3.1	106
8	The Design of TiO ₂ Nanostructures (Nanoparticle, Nanotube, and Nanosheet) and Their Photocatalytic Activity. Journal of Physical Chemistry C, 2014, 118, 12727-12733.	3.1	91
9	Structure of Nitrogen and Zirconium Co-Doped Titania with Enhanced Visible-Light Photocatalytic Activity. ACS Applied Materials & Interfaces, 2014, 6, 4622-4629.	8.0	78
10	Synthesis of Indium Borate and Its Application in Photodegradation of 4-Chlorophenol. Environmental Science & Technology, 2012, 46, 2330-2336.	10.0	69
11	An enhanced visible-light photocatalytic activity of TiO2 by nitrogen and nickel–chlorine modification. Separation and Purification Technology, 2013, 104, 256-262.	7.9	55
12	Adjustment and Matching of Energy Band of TiO ₂ -Based Photocatalysts by Metal Ions (Pd,) Tj ETQqQ C, 2017, 121, 1089-1098.	0 0 rgBT 3.1	/Overlock 10 54
13	Doping mode, band structure and photocatalytic mechanism of B–N-codoped TiO2. Applied Surface Science, 2011, 257, 7335-7342.	6.1	53
	TiO ₂ /vanadate (Sr ₁₀ V ₆ O ₂₅ ,) Tj ETQq0 0 0 rgBT /Overlock 10	Tf 50 232	2 Td (Ni <sub< td=""></sub<>
14	heterostructured photocatalysts with enhanced photocatalytic activity for photoreduction of CO ₂ into CH ₄ . Nanoscale, 2016, 8, 949-958.	5.6	52
15	Doping mechanism of Zn ²⁺ ions in Zn-doped TiO ₂ prepared by a sol–gel method. CrystEngComm, 2015, 17, 5074-5080.	2.6	50
16	Synthesis of porous ZnMn2O4 flower-like microspheres by using MOF as precursors and its application on photoreduction of CO2 into CO. Applied Surface Science, 2019, 465, 383-388.	6.1	47
17	Improved visible-light photocatalytic activity of titania activated by nitrogen and indium modification. Journal of Materials Chemistry, 2012, 22, 14443.	6.7	44
18	Fabrication of N-TiO ₂ /InBO ₃ Heterostructures with Enhanced Visible Photocatalytic Performance. Journal of Physical Chemistry C, 2014, 118, 13545-13551.	3.1	38

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19	Enhanced photocatalytic activity of TiO ₂ –Cu/C with regulation and matching of energy levels by carbon and copper for photoreduction of CO ₂ into CH ₄ . CrystEngComm, 2016, 18, 2956-2964.	2.6	37
20	Efficient visible-light photocatalytic degradation system assisted by conventional Pd catalysis. Scientific Reports, 2015, 5, 9561.	3.3	32
21	The existing states of doped B 3+ ions on the B doped TiO 2. Applied Surface Science, 2015, 345, 67-71.	6.1	32
22	The band structure and photocatalytic mechanism of MoS2-modified C3N4 photocatalysts with improved visible photocatalytic activity. Materials Research Bulletin, 2018, 102, 433-439.	5.2	31
23	Doping and transformation mechanisms of Fe ³⁺ ions in Fe-doped TiO ₂ . CrystEngComm, 2017, 19, 1100-1105.	2.6	30
24	Improved photocatalytic activity of LaFeO3 with doping Mn3+ ions and modifying Pd2+ ions for photoreduction of CO2 into CH4. Journal of Power Sources, 2022, 519, 230738.	7.8	30
25	The band structure and photocatalytic mechanism for a CeO ₂ -modified C ₃ N ₄ photocatalyst. New Journal of Chemistry, 2017, 41, 9724-9730.	2.8	29
26	Adjustment and Control of Energy Levels for TiO ₂ –N/ZrO _{2–<i>x</i>} N _{<i>x</i>} with Enhanced Visible Light Photocatalytic Activity. Journal of Physical Chemistry C, 2014, 118, 20982-20988.	3.1	28
27	Enhanced photocatalytic activity of TiO ₂ activated by doping Zr and modifying Pd. RSC Advances, 2016, 6, 29950-29957.	3.6	26
28	Investigation on a novel ZnO/TiO2–B photocatalyst with enhanced visible photocatalytic activity. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 58, 118-123.	2.7	25
29	Matching and adjusting energy band structures of Pd-modified sulphides (ZnS,) Tj ETQq1 1 0.784314 rgBT /Overlo photoreduction. Nanoscale, 2020, 12, 18180-18192.	ock 10 Tf . 5.6	50 347 Td (25
30	Synthesis of TiO2-N/SnO2 heterostructure photocatalyst and its photocatalytic mechanism. Journal of Colloid and Interface Science, 2017, 486, 176-183.	9.4	24
31	Enhanced photocatalytic activity of titania with unique surface indium and boron species. Applied Surface Science, 2013, 273, 638-644.	6.1	23
32	Effect of plasma treatment on surface properties of TiO2 nanoparticulate films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 262, 181-186.	4.7	22
33	New Type Photocatalyst PbBiO ₂ Cl: Materials Design and Experimental Validation. Journal of Physical Chemistry C, 2015, 119, 28190-28193.	3.1	22
34	TiO ₂ –Pd/C composited photocatalyst with improved photocatalytic activity for photoreduction of CO ₂ into CH ₄ . New Journal of Chemistry, 2017, 41, 3204-3210.	2.8	21
35	Z-scheme interface modification by MnV2O6 for V2O5/g-C3N4 heterostructure towards efficient visible photocatalytic activity. Journal of Alloys and Compounds, 2021, 882, 160751.	5.5	21
36	Modification of Pd and Mn on the Surface of TiO2 with Enhanced Photocatalytic Activity for Photoreduction of CO2 into CH4. Journal of Physical Chemistry C, 2017, 121, 270-277.	3.1	19

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37	Improved photocatalytic activity of self-assemble TiO 2 nanobelts with Au nanoparticles. Applied Surface Science, 2014, 315, 247-251.	6.1	18
38	Study of PdO species on surface of TiO2 for photoreduction of CO2 into CH4. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 384, 112032.	3.9	18
39	A new Ni/Ni3(BO3)2/NiO heterostructured photocatalyst with efficient reduction of CO2 into CH4. Separation and Purification Technology, 2015, 142, 14-17.	7.9	16
40	Synergistic effects of Zn and Pd species in TiO2 towards efficient photo-reduction of CO2 into CH4. New Journal of Chemistry, 2018, 42, 483-488.	2.8	16
41	Hexagonal Zn2SnO4 nanoplates self-doped with Sn4+ ions towards efficient photoreduction of CO2 into CH4. Materials Science in Semiconductor Processing, 2021, 130, 105818.	4.0	16
42	Generation and evolution of plasma during femtosecond laser ablation of silicon in different ambient gases. Laser and Particle Beams, 2013, 31, 539-545.	1.0	13
43	Synthesis of palladium-modified MnS photocatalysts with enhanced photocatalytic activity in the photoreduction of CO2 to CH4. Applied Surface Science, 2021, 541, 148519.	6.1	12
44	Synergetic effect of N3â^', In3+ and Sn4+ ions in TiO2 towards efficient visible photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 132-137.	3.9	10
45	Thermal catalytic mechanism for the metal ions(Cu, in, Pd and Pt) modified TiO2 on degradation of HCHO. Materials Science in Semiconductor Processing, 2021, 123, 105547.	4.0	10
46	Improved photocatalytic activity of ZnO via the modification of In2O3 and MoS2 surface species for the photoreduction of CO2. Applied Surface Science, 2021, 566, 150649.	6.1	10
47	Regulating the band structure by modifying Ti3C2 and doping Fe ions improved photocatalytic activity and selectivity of ZnGa2O4–Ti3C2–Fe for photoreducted CO2 into CH4. Journal of Power Sources, 2022, 535, 231421.	7.8	10
48	Stannous oxide promoted charge separation in rationally designed heterojunction photocatalysts with a controllable mechanism. Dalton Transactions, 2018, 47, 12734-12741.	3.3	9
49	Improved photocatalytic activity of TiO2 modified with unique O–Zn–Cl surface species. Separation and Purification Technology, 2016, 171, 118-122.	7.9	7
50	Doping Mechanism of Ge ⁴⁺ Ions in Ge ⁴⁺ â€Doped TiO ₂ . Physica Status Solidi (B): Basic Research, 2018, 255, 1700289.	1.5	4
51	Synthesis of zinc based hierarchical microspheres photocatalyst and their enhanced photocatalytic activity. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 106, 57-61.	2.7	4
52	Improved Visible Photocatalytic Activity on Titania Modified with â^'O–Pd–Cl Species Assisted by Oxidative Addition Reaction of Pd ⁰ . Journal of Physical Chemistry C, 2017, 121, 375-380.	3.1	3
53	Animal heat activated cancer therapy by a traditional catalyst TiO2-Pd/graphene composites. Scientific Reports, 2020, 10, 15823.	3.3	2
54	The influence of pH values on the existing states of In and B ions in TiO2. Applied Surface Science, 2016, 365, 263-267.	6.1	1