

Taizo Sano

List of Publications by Year in descending order

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51
papers

2,049
citations

304743

22
h-index

233421

45
g-index

53
all docs

53
docs citations

53
times ranked

2935
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of graphitic carbon nitride (g-C ₃ N ₄) by alkaline hydrothermal treatment for photocatalytic NO oxidation in gas phase. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6489.	10.3	342
2	Preparation of a visible light-responsive photocatalyst from a complex of Ti ⁴⁺ with a nitrogen-containing ligand. <i>Journal of Materials Chemistry</i> , 2004, 14, 380.	6.7	174
3	Photocatalytic degradation of gaseous sulfur compounds by silver-deposited titanium dioxide. <i>Applied Catalysis B: Environmental</i> , 2005, 57, 109-115.	20.2	119
4	Photocatalytic degradation of gaseous acetaldehyde on TiO ₂ with photodeposited metals and metal oxides. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 160, 93-98.	3.9	109
5	Contributions of photocatalytic/catalytic activities of TiO ₂ and γ -Al ₂ O ₃ in nonthermal plasma on oxidation of acetaldehyde and CO. <i>Journal of Molecular Catalysis A</i> , 2006, 245, 235-241.	4.8	101
6	SOLAR HYDROGEN PRODUCTION BY USING FERRITES. <i>Solar Energy</i> , 1999, 65, 55-57.	6.1	80
7	Immobilization of TiO ₂ nanoparticles on polymeric substrates by using electrostatic interaction in the aqueous phase. <i>Applied Catalysis B: Environmental</i> , 2008, 83, 39-45.	20.2	76
8	Photocatalytic Decomposition of N ₂ O on Highly Dispersed Ag ⁺ Ions on TiO ₂ Prepared by Photodeposition. <i>Journal of Catalysis</i> , 2000, 194, 71-79.	6.2	72
9	Thermodynamic evaluation of water splitting by a cation-excessive (Ni, Mn) ferrite. <i>International Journal of Hydrogen Energy</i> , 1998, 23, 1185-1191.	7.1	70
10	Degradation of toluene and acetaldehyde with Pt-loaded TiO ₂ catalyst and parabolic trough concentrator. <i>Solar Energy</i> , 2004, 77, 543-552.	6.1	68
11	Degradation of phenol by underwater pulsed corona discharge in combination with TiO ₂ photocatalysis. <i>Research on Chemical Intermediates</i> , 2005, 31, 285-294.	2.7	68
12	Effect of Pd-photodeposition over TiO ₂ on product selectivity in photocatalytic degradation of vinyl chloride monomer. <i>Journal of Molecular Catalysis A</i> , 2002, 189, 263-270.	4.8	65
13	Photocatalytic performance of Pt-loaded TiO ₂ in the decomposition of gaseous ozone. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 161, 155-161.	3.9	63
14	Origin of visible-light activity of N-doped TiO ₂ photocatalyst: Behaviors of N and S atoms in a wet N-doping process. <i>Applied Catalysis B: Environmental</i> , 2012, 128, 77-83.	20.2	53
15	Removal of methyl mercaptan with highly-mobile silver on graphitic carbon-nitride (g-C ₃ N ₄) photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 133-141.	20.2	52
16	Experimental Study on Adsorption and Photocatalytic Decomposition of Isopropyl Methylphosphonofluoridate at Surface of TiO ₂ Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2305-2314.	3.1	48
17	Photocatalytic detoxification of aqueous organophosphorus by TiO ₂ immobilized silica gel. <i>Applied Catalysis B: Environmental</i> , 2012, 128, 105-118.	20.2	42
18	Adjacent- versus Remote-Site Electron Injection in TiO ₂ Surfaces Modified with Binuclear Ruthenium Complexes. <i>Inorganic Chemistry</i> , 2003, 42, 2919-2932.	4.0	37

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19	Degradation of C ₂ H ₂ with modified-TiO ₂ photocatalysts under visible light irradiation. <i>Journal of Molecular Catalysis A</i> , 2008, 284, 127-133.	4.8	37
20	Thermochemical decomposition of H ₂ O to H ₂ on cation-excess ferrite. <i>Journal of Physics and Chemistry of Solids</i> , 1996, 57, 1757-1763.	4.0	35
21	Titanium dioxide photocatalysis to decompose isopropyl methylphosphonofluoridate (GB) in gas phase. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 316-322.	20.2	29
22	CO ₂ decomposition to carbon with ferrite-derived metallic phase at 300 Å°C. <i>Carbon</i> , 1995, 33, 1443-1447.	10.3	26
23	Photocatalytic mineralization of vinyl chloride on TiO ₂ . <i>Journal of Molecular Catalysis A</i> , 2001, 168, 233-240.	4.8	21
24	Titanium dioxide photocatalytic decomposition of ethyl-S-dimethylaminoethyl methylphosphonothiolate (VX) in aqueous phase. <i>Applied Catalysis B: Environmental</i> , 2013, 134-135, 19-25.	20.2	21
25	Reaction mechanism of H ₂ generation for H ₂ O/Zn/Fe ₃ O ₄ system. <i>International Journal of Hydrogen Energy</i> , 2002, 27, 1023-1028.	7.1	20
26	Kinetic study of the formation of cation-excess magnetite. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 1533.	1.7	18
27	XRD and Mössbauer Studies on Oxygen-Deficient Ni(II)-Bearing Ferrite with a High Reactivity for CO ₂ Decomposition to Carbon. <i>Journal of Solid State Chemistry</i> , 1995, 120, 64-69.	2.9	16
28	Improvement of Photocatalytic Degradation Activity of Visible-Light-Responsive TiO ₂ by Aid of Ultraviolet-Light Pretreatment. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5535-5540.	3.1	16
29	Specific properties on TiO ₂ photocatalysis to decompose isopropyl methylphosphonofluoridate and dimethyl methylphosphonate in Gas Phase. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 264, 12-17.	3.9	16
30	Effects of polymeric- and electronic-structure of graphitic carbon nitride (g-C ₃ N ₄) on oxidative photocatalysis. <i>Molecular Catalysis</i> , 2019, 474, 110451.	2.0	14
31	Removal of high concentration dimethyl methylphosphonate in the gas phase by repeated-batch reactions using TiO ₂ . <i>Journal of Hazardous Materials</i> , 2010, 177, 274-280.	12.4	13
32	A carbon-bearing nickel(II) ferrite: a tailor-made solid reactant for two-step thermochemical water splitting at 300 Å°C. <i>Journal of Materials Chemistry</i> , 1996, 6, 605-609.	6.7	12
33	Synthesis of (Li,Mn) ferrites by reaction of ultrafine ⁵⁷ Fe-Fe ₂ O ₃ with LiMn ₂ O ₄ spinel at 650Å°C. <i>Materials Research Bulletin</i> , 1999, 34, 389-401.	5.2	11
34	Thermal study on release of lattice oxygen from carbon-bearing Ni(II) ferrite. <i>Energy</i> , 1996, 21, 377-384.	8.8	10
35	Continuous elimination of gaseous dimethyl methylphosphonate by a photocatalytic flow reaction system. <i>Applied Catalysis B: Environmental</i> , 2014, 146, 71-78.	20.2	10
36	CO ₂ decomposition by metallic phase on oxygen-deficient Ni(II)-bearing ferrite. <i>Journal of Materials Science Letters</i> , 1996, 15, 156-158.	0.5	9

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37	Visible light-induced decomposition of a fluorotelomer unsaturated carboxylic acid in water with a combination of tungsten trioxide and persulfate. <i>Chemosphere</i> , 2013, 93, 2732-2737.	8.2	9
38	Visible light-induced decomposition of monoethanolamine in water using graphitic carbon nitride as a photocatalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 351, 162-169.	3.9	9
39	Methanation of CO ₂ with the oxygen-deficient Ni(II)-ferrite under dynamic conditions. <i>Journal of Materials Science</i> , 1995, 30, 6350-6354.	3.7	8
40	Preparation of nano-sized TiO ₂ sol and its visible-light-responsive photocatalysis in aquatic state. <i>Micro and Nano Letters</i> , 2006, 1, 116.	1.3	8
41	Thermochemical water-splitting by a carbon-bearing Ni(II) ferrite at 300 °C. <i>International Journal of Hydrogen Energy</i> , 1996, 21, 781-787.	7.1	7
42	Effect of foreign cation of Zn(II) or Mn(II) ion in FeO-w ^{1/4} stite on its disproportionation reaction below 575 °C. <i>Solid State Ionics</i> , 1997, 104, 311-317.	2.7	7
43	Photocatalytic Solar Tower Reactor for the Elimination of a Low Concentration of VOCs. <i>Molecules</i> , 2014, 19, 16624-16639.	3.8	6
44	Stoichiometry of H ₂ evolution in the 2-step water splitting by a ClO-layered Ni(II)-ferrite. <i>International Journal of Hydrogen Energy</i> , 1997, 22, 567-573.	7.1	3
45	Photocatalytic Decomposition of Ethyl <i>S</i> -Diisopropylaminoethyl Methylphosphonothioate (VX) by Ag and Au Metal Deposited on TiO ₂ in Aqueous Phase. <i>Chemistry Letters</i> , 2013, 42, 518-520.	1.3	3
46	Oxygen Uptake and Release Mechanism of Lithium Manganese Ferrite in the Low Temperature Range of 573 °C–773 K. <i>Journal of the American Ceramic Society</i> , 2000, 83, 2509-2514.	3.8	2
47	Decomposition Of Co ₂ To Carbon By H ₂ -Activated Ni(II)- And Co(II)-Bearing Ferrites At 300 °C. <i>Materials Research Society Symposia Proceedings</i> , 1994, 344, 63.	0.1	1
48	Photochemical effect on reduction of ultrafine (Ni, Zn) ferrite by CO at 300 °C. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 1243-1248.	1.7	1
49	New Generation Reaction Of H ₂ From H ₂ O With Carbon-Bearing Ferrites At 300 °C. <i>Materials Research Society Symposia Proceedings</i> , 1994, 344, 57.	0.1	0
50	Degradation of VOCs With Pt-TiO ₂ Photocatalyst and Concentrated Sunlight. , 2004, , 561.		0
51	Synthesis and Characterization of Carbon-Bearing Ni(II) Ferrite (CBNF). <i>European Physical Journal Special Topics</i> , 1997, 07, C1-681-C1-682.	0.2	0