Albin Pintar

List of Publications by Year
in descending order

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Version: 2024-02-01

78 papers	2,372 citations	201385 27 h-index	214527 47 g-index
78 all docs	78 docs citations	78 times ranked	3520 citing authors

#	Article	IF	Citations
1	Manganese Functionalized Silicate Nanoparticles as a Fentonâ€Type Catalyst for Water Purification by Advanced Oxidation Processes (AOP). Advanced Functional Materials, 2012, 22, 820-826.	7.8	157
2	Simple synthesis of anatase/rutile/brookite TiO2 nanocomposite with superior mineralization potential for photocatalytic degradation of water pollutants. Applied Catalysis B: Environmental, 2016, 181, 465-474.	10.8	151
3	Hazard identification and risk characterization of bisphenols A, F and AF to aquatic organisms. Environmental Pollution, 2016, 212, 472-479.	3.7	113
4	Catalytic liquid-phase nitrite reduction: Kinetics and catalyst deactivation. AICHE Journal, 1998, 44, 2280-2292.	1.8	107
5	TPR, TPO, and TPD examinations of Cu0.15Ce0.85O2â^'y mixed oxides prepared by co-precipitation, by the solâ€“gel peroxide route, and by citric acid-assisted synthesis. Journal of Colloid and Interface Science, 2005, 285, 218-231.	5.0	107
6	Small CuO clusters on CeO2 nanospheres as active species for catalytic N2O decomposition. Applied Catalysis B: Environmental, 2015, 163, 113-122.	10.8	99
7	Titania versus zinc oxide nanoparticles on mesoporous silica supports as photocatalysts for removal of dyes from wastewater at neutral pH. Catalysis Today, 2018, 310, 32-41.	2.2	89
8	Glass fiber-supported TiO2 photocatalyst: Efficient mineralization and removal of toxicity/estrogenicity of bisphenol A and its analogs. Applied Catalysis B: Environmental, 2016, 183, 149-158.	10.8	83
9	Improved electronâ€“hole separation and migration in anatase TiO₂ nanorod/reduced graphene oxide composites and their influence on photocatalytic performance. Nanoscale, 2017, 9, 4578-4592.	2.8	81
10	Stable and selective syngas production from dry CH4-CO2 streams over supported bimetallic transition metal catalysts. Applied Catalysis B: Environmental, 2017, 206, 675-682.	10.8	69
11	Ordered mesoporous CuOâ€“CeO2 mixed oxides as an effective catalyst for N2O decomposition. Chemical Engineering Journal, 2014, 254, 153-162.	6.6	63
12	Revisiting terephthalic acid and coumarin as probes for photoluminescent determination of hydroxyl radical formation rate in heterogeneous photocatalysis. Applied Catalysis A: General, 2020, 598, 117566.	2.2	63
13	Electron trapping energy states of TiO 2 â€“WO 3 composites and their influence on photocatalytic degradation of bisphenol A. Applied Catalysis B: Environmental, 2017, 209, 273-284.	10.8	59
14	The effect of CeO₂â€“ZrO₂ structural differences on the origin and reactivity of carbon formed during methane dry reforming over NiCo/CeO₂â€“ZrO₂ catalysts studied by transient techniques. Catalysis Science and Technology, 2017, 7, 5422-5434.	2.1	58
15	Desorption of Phenol from Activated Carbon by Hot Water Regeneration. Desorption Isotherms. Industrial & Engineering Chemistry Research, 1996, 35, 4619-4625.	1.8	53
16	Enhanced surface properties of CeO2 by MnO doping and their role in mechanism of methane dry reforming deduced by means of in-situ DRIFTS. Applied Catalysis A: General, 2020, 599, 117603.	2.2	52
17	Determination of Schottky barrier height and enhanced photoelectron generation in novel plasmonic immobilized multisegmented (Au/TiO₂) nanorod arrays (NRAs) suitable for solar energy conversion applications. Journal of Materials Chemistry C, 2017, 5, 10509-10516.	2.7	50
18	Effects of heat and peroxide treatment on photocatalytic activity of titanate nanotubes. Catalysis Today, 2015, 241, 15-24.	2.2	49

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19	Toxicity to Daphnia magna and Vibrio fischeri of Kraft bleach plant effluents treated by catalytic wet-air oxidation. Water Research, 2004, 38, 289-300.	5.3	47
20	N2O decomposition over CuO/CeO2 catalyst: New insights into reaction mechanism and inhibiting action of H2O and NO by operando techniques. Applied Catalysis B: Environmental, 2016, 197, 146-158.	10.8	47
21	Coke Minimization during Conversion of Biogas to Syngas by Bimetallic Tungstenâ€“Nickel Incorporated Mesoporous Alumina Synthesized by the One-Pot Route. Industrial & Engineering Chemistry Research, 2015, 54, 2290-2301.	1.8	42
22	Effect of synthesis route of mesoporous zirconia based Ni catalysts on coke minimization in conversion of biogas to synthesis gas. International Journal of Hydrogen Energy, 2015, 40, 3217-3228.	3.8	41
23	Influence of support materials on continuous hydrogen production in anaerobic packed-bed reactor with immobilized hydrogen producing bacteria at acidic conditions. Enzyme and Microbial Technology, 2018, 111, 87-96.	1.6	40
24	Nanostructured CuxCe1â^'xO2â^'y mixed oxide catalysts: Characterization and WGS activity tests. Journal of Colloid and Interface Science, 2007, 307, 145-157.	5.0	36
25	TiO2-Bi2O3/(BiO)2CO3-reduced graphene oxide composite as an effective visible light photocatalyst for degradation of aqueous bisphenol A solutions. Catalysis Today, 2018, 315, 237-246.	2.2	35
26	Catalytic stepwise nitrate hydrogenation in batch-recycle fixed-bed reactors. Journal of Hazardous Materials, 2007, 149, 387-398.	6.5	32
27	Bimetal Cu-Mn porous silica-supported catalyst for Fenton-like degradation of organic dyes in wastewater at neutral pH. Catalysis Today, 2020, 358, 270-277.	2.2	32
28	Vapor-Phase Hydrogenation of Levulinic Acid to Î³-Valerolactone Over Bi-Functional Ni/HZSM-5 Catalyst. Frontiers in Chemistry, 2018, 6, 285.	1.8	30
29	Photocatalytic degradation of imidacloprid in the flat-plate photoreactor under UVA and simulated solar irradiance conditionsâ€”The influence of operating conditions, kinetics and degradation pathway. Journal of Environmental Chemical Engineering, 2021, 9, 105611.	3.3	29
30	In situ Fourier transform infrared spectroscopy as an efficient tool for determination of reaction kinetics. Analyst, The, 2002, 127, 1535-1540.	1.7	27
31	Toxic and endocrine disrupting effects of wastewater treatment plant influents and effluents on a freshwater isopod Asellus aquaticus (Isopoda, Crustacea). Chemosphere, 2017, 174, 342-353.	4.2	26
32	TiO2-Î²-Bi2O3 junction as a leverage for the visible-light activity of TiO2 based catalyst used for environmental applications. Catalysis Today, 2021, 361, 165-175.	2.2	23
33	Catalyst support materials for prominent mineralization of bisphenol A in catalytic ozonation process. Environmental Science and Pollution Research, 2016, 23, 10223-10233.	2.7	22
34	The influence of Schottky barrier height onto visible-light triggered photocatalytic activity of TiO2Â+ÂAu composites. Applied Surface Science, 2021, 543, 148799.	3.1	22
35	Tunable ceriaâ€“zirconia support for nickelâ€“cobalt catalyst in the enhancement of methane dry reforming with carbon dioxide. Catalysis Communications, 2014, 52, 10-15.	1.6	20
36	Guestâ€“host van der Waals interactions decisively affect the molecular transport in mesoporous media. Journal of Materials Chemistry, 2012, 22, 1112-1120.	6.7	19

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37	Ni-containing CeO2 rods for dry reforming of methane: Activity tests and a multiscale lattice Boltzmann model analysis in two model geometries. Chemical Engineering Journal, 2021, 413, 127498.	6.6	16
38	TiO2-sludge carbon enhanced catalytic oxidative reaction in environmental wastewaters applications. Journal of Hazardous Materials, 2015, 300, 406-414.	6.5	15
39	Sputtered vs. sol-gel TiO2-doped films: Characterization and assessment of aqueous bisphenol A oxidation under UV and visible light radiation. Catalysis Today, 2020, 357, 380-391.	2.2	15
40	The influence of synthesis conditions on the visible-light triggered photocatalytic activity of g-C3N4/TiO2 composites used in AOPs. Journal of Environmental Chemical Engineering, 2022, 10, 107656.	3.3	15
41	Adverse effects of bisphenol A on water louse (Asellus aquaticus). Ecotoxicology and Environmental Safety, 2015, 117, 81-88.	2.9	14
42	The hazard assessment of nanostructured CeO2-based mixed oxides on the zebrafish Danio rerio under environmentally relevant UV-A exposure. Science of the Total Environment, 2015, 506-507, 272-278.	3.9	14
43	Measurement uncertainty evaluation and in-house method validation of the herbicide iodosulfuron-methyl-sodium in water samples by using HPLC analysis. Accreditation and Quality Assurance, 2011, 16, 21-29.	0.4	13
44	Support material dictates the attached biomass characteristics during the immobilization process in anaerobic continuous-flow packed-bed bioreactor. Anaerobe, 2017, 48, 194-202.	1.0	13
45	Evaluation of Au/ZrO2 Catalysts Prepared via Postsynthesis Methods in CO2 Hydrogenation to Methanol. Catalysts, 2022, 12, 218.	1.6	13
46	Catalytic wet air oxidation of bisphenol A aqueous solution in trickle-bed reactor over single TiO2 polymorphs and their mixtures. Journal of Environmental Chemical Engineering, 2018, 6, 2148-2158.	3.3	12
47	Inâ€situ XAS Study of Catalytic N₂O Decomposition Over CuO/CeO₂ Catalysts. ChemCatChem, 2021, 13, 1814-1823.	1.8	12
48	Tunable poly(aryleneethynylene) networks prepared by emulsion templating for visible-light-driven photocatalysis. Catalysis Today, 2021, 361, 146-151.	2.2	9
49	Biogas production from spent rose hips (Rosa canina L.): Fraction separation, organic loading and co-digestion with N-rich microbial biomass. Bioresource Technology, 2014, 171, 375-383.	4.8	8
50	Advances and trends in advanced oxidation processes. Environmental Science and Pollution Research, 2017, 24, 1061-1062.	2.7	8
51	Effect of Surface Chemistry and Crystallographic Parameters of TiO2 Anatase Nanocrystals on Photocatalytic Degradation of Bisphenol A. Catalysts, 2019, 9, 447.	1.6	8
52	Simplified approach to modelling the catalytic degradation of low-density polyethylene (LDPE) by applying catalyst-free LDPE-TG profiles and the Friedman method. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1011-1020.	2.0	8
53	Advanced oxidation processes: recent achievements and perspectives. Environmental Science and Pollution Research, 2020, 27, 22141-22143.	2.7	8
54	Highly Porous Poly(arylene cyano-vinylene) Beads Derived through the Knoevenagel Condensation of the Oil-in-Oil-in-Oil Double Emulsion Templates. ACS Macro Letters, 2021, 10, 1248-1253.	2.3	8

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55	Azine- and imine-linked conjugated polyHIPEs through Schiff-base condensation reaction. Polymer Chemistry, 2022, 13, 474-478.	1.9	8
56	The photocatalytic degradation of 17Î±-ethynylestradiol by pure and carbon nanotubes modified TiO2 under UVC illumination. Open Chemistry, 2012, 10, 1137-1148.	1.0	7
57	Photocatalytic degradation of some endocrine disrupting compounds by modified TiO2 under UV or halogen lamp illumination. Reaction Kinetics, Mechanisms and Catalysis, 2013, 109, 355-373.	0.8	7
58	Self-Doped Cu-Deposited Titania Nanotubes as Efficient Visible Light Photocatalyst. Catalysis Letters, 2017, 147, 1686-1695.	1.4	7
59	Hierarchically structured TiO2-based composites for Fenton-type oxidation processes. Journal of Environmental Management, 2019, 236, 591-602.	3.8	7
60	Influence of TiO2 Morphology and Crystallinity on Visible-Light Photocatalytic Activity of TiO2-Bi2O3 Composite in AOPs. Catalysts, 2020, 10, 395.	1.6	7
61	Method validation and measurement uncertainty evaluation for measurement of mass concentration of organic acids in fermentation broths by using ion chromatography. Accreditation and Quality Assurance, 2012, 17, 323-330.	0.4	6
62	Influence of Alumina Precursor Properties on Cu-Fe Alumina Supported Catalysts for Total Toluene Oxidation as a Model Volatile Organic Air Pollutant. Catalysts, 2021, 11, 252.	1.6	6
63	Evolution of Surface Catalytic Sites on Bimetal Silica-Based Fenton-Like Catalysts for Degradation of Dyes with Different Molecular Charges. Nanomaterials, 2020, 10, 2419.	1.9	6
64	Influence of Morphological, Redox and Surface Acidity Properties on WGS Activity of CuO-CeO2 Catalysts. Journal of Chemical Engineering of Japan, 2009, 42, S3-S9.	0.3	5
65	Synthesis gas adjustment by low temperature sorption enhanced water-gas shift reaction through a copper-zeolite 13X hybrid material. Chemical Engineering and Processing: Process Intensification, 2017, 121, 97-110.	1.8	5
66	Gas chromatography analysis: method validation and measurement uncertainty evaluation for volume fraction measurements of gases in simulated reformate gas stream. Accreditation and Quality Assurance, 2013, 18, 225-233.	0.4	4
67	Procedure for generation of catalyst-free PE-TG profiles and its consequence on calculated activation energies. Journal of Thermal Analysis and Calorimetry, 2017, 128, 443-456.	2.0	4
68	Influence of temperature and different hydroxides on properties of activated carbon prepared from saccharose. Characterization, thermal degradation kinetic and dyes removal from water solutions. Science of Sintering, 2018, 50, 255-273.	0.5	3
69	Defective Grey TiO2 with Minuscule Anataseâ€“Rutile Heterophase Junctions for Hydroxyl Radicals Formation in a Visible Light-Triggered Photocatalysis. Catalysts, 2021, 11, 1500.	1.6	3
70	Unexpected toxicity to aquatic organisms of some aqueous bisphenol A samples treated by advanced oxidation processes. Water Science and Technology, 2015, 72, 29-37.	1.2	2
71	Catalytic Wet-Air Oxidation of Kraft Bleach Plant Effluents in a Trickle-bed Reactor. Chemie-Ingenieur-Technik, 2001, 73, 657-657.	0.4	1
72	Synthesis of ordered nanostructured CuO-CeO2 catalysts by hard template method. Studies in Surface Science and Catalysis, 2010, 175, 245-248.	1.5	1

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73	Isolation, Identification, and Selection of Bacteria With Proof-of-Concept for Bioaugmentation of Whitewater From Wood-Free Paper Mills. Frontiers in Microbiology, 2021, 12, 758702.	1.5	1
74	Preface to CAMURE-5 & ISMR-4 Symposium. Industrial & Engineering Chemistry Research, 2005, 44, 9369-9369.	1.8	0
75	Denitrification of drinking water in a two-stage biofilm membrane bioreactor. Desalination and Water Treatment, 2013, 51, 5402-5408.	1.0	0
76	A compact reactor system for processing grey water and its reutilization for flushing toilet bowls. Water Science and Technology: Water Supply, 2014, 14, 626-633.	1.0	0
77	Proficiency testing of wastewater sampling: What did we learn?. Accreditation and Quality Assurance, 2015, 20, 387-394.	0.4	0
78	Supported Metal Nanoparticles and Single-Atoms for Catalytic CO₂Utilization. ACS Symposium Series, 2020, , 241-266.	0.5	0