Toshiki Tsubota

List of Publications by Year
in descending order

101 papers	4,649 citations	159358 30 h-index	102304 66 g-index
102 all docs	102 docs citations	102 times ranked	5750 citing authors

#	Article	IF	Citations
1	Potential heterogeneous nano-catalyst via integrating hydrothermal carbonization for biodiesel production using waste cooking oil. Chemosphere, 2022, 286, 131913.	4.2	30
2	Thermal induced changes of rice straw phytolith in relation to arsenic release: A perspective of rice straw arsenic under open burning. Journal of Environmental Management, 2022, 304, 114294.	3.8	10
3	The investigation of activated carbon by K2CO3 activation: Micropores- and macropores-dominated structure. Chemosphere, 2022, 299, 134365.	4.2	29
4	Comparison of consecutive impacts of wood and rice husk gasification biochars with nitrogen fertilizer on soybean yield. Paddy and Water Environment, 2022, 20, 303-313.	1.0	3
5	Enhancing soil water holding capacity and provision of a potassium source via optimization of the pyrolysis of bamboo biochar. Biochar, 2021, 3, 51-61.	6.2	23
6	CO₂activation of bamboo residue after hydrothermal treatment and performance as an EDLC electrode. RSC Advances, 2021, 11, 9682-9692.	1.7	17
7	An easily fabricated palladium nanocatalyst on magnetic biochar for Suzukiâ€“Miyaura and aryl halide cyanation reactions. New Journal of Chemistry, 2021, 45, 12519-12527.	1.4	8
8	Surface Functionalization of Biochar from Oil Palm Empty Fruit Bunch through Hydrothermal Process. Processes, 2021, 9, 149.	1.3	31
9	Towards Engineered Hydrochars: Application of Artificial Neural Networks in the Hydrothermal Carbonization of Sewage Sludge. Energies, 2021, 14, 3000.	1.6	6
10	Activated carbon produced from bamboo and solid residue by CO2 activation utilized as CO2 adsorbents. Biomass and Bioenergy, 2021, 148, 106039.	2.9	63
11	Evolution of physico-chemical properties of Dicranopteris linearis-derived activated carbon under various physical activation atmospheres. Scientific Reports, 2021, 11, 14430.	1.6	21
12	Fungicide application can intensify clay aggregation and exacerbate copper accumulation in citrus soils. Environmental Pollution, 2021, 288, 117703.	3.7	7
13	Kinetic and structural changes during gasification of cashew nut shell char particles. Environmental Progress and Sustainable Energy, 2021, 40, e13580.	1.3	10
14	Conversion of Waste Polyethylene Terephthalate (PET) Polymer into Activated Carbon and Its Feasibility to Produce Green Fuel. Polymers, 2021, 13, 3952.	2.0	18
15	Assessment of Biochar Produced by Flame-Curtain Pyrolysis as a Precursor for the Development of an Efficient Electric Double-Layer Capacitor. Energies, 2021, 14, 7671.	1.6	6
16	KOH activation of solid residue of Japanese citron after extraction by microwave process and property as EDLC electrode. Journal of Porous Materials, 2020, 27, 727-734.	1.3	7
17	Hydrochars as Emerging Biofuels: Recent Advances and Application of Artificial Neural Networks for the Prediction of Heating Values. Energies, 2020, 13, 4572.	1.6	15
18	Carbonization and H3PO4 activation of fern Dicranopteris linearis and electrochemical properties for electric double layer capacitor electrode. Scientific Reports, 2020, 10, 19974.	1.6	19

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19	Humidity adsorption characteristics of Moso bamboo charcoal oxidized at room temperature by HNO3. Journal of the Indian Academy of Wood Science, 2020, 17, 34-41.	0.3	2
20	Utilization of pine tree biochar produced by flame-curtain pyrolysis in two non-agricultural applications. Bioresource Technology Reports, 2020, 9, 100384.	1.5	21
21	Release kinetics of potassium from silicaâ€rich fernâ€derived biochars. Agronomy Journal, 2020, 112, 1713-1725.	0.9	19
22	Fern Dicranopteris linearis-derived biochars: Adjusting surface properties by direct processing of the silica phase. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 583, 123937.	2.3	16
23	Preparation of Porous Carbon Material Derived from Cellulose with Added Melamine Sulfate and Electrochemical Performance as EDLC Electrode. Journal of Electronic Materials, 2019, 48, 879-886.	1.0	7
24	Direct Synthesis of Graphene Layer Covered Micro Channel on Diamond Surface Using Ni Wire. Journal of Nanoscience and Nanotechnology, 2018, 18, 4418-4422.	0.9	2
25	Cascade use of bamboo as raw material for several high value products: production of xylo-oligosaccharide and activated carbon for EDLC electrode from bamboo. Journal of Porous Materials, 2018, 25, 1541-1549.	1.3	20
26	Photoelectrochemical synthesis of aniline from nitrobenzene in a neutral aqueous solution by using a p-type Cu2ZnSnS4 electrode. Applied Catalysis B: Environmental, 2018, 225, 445-451.	10.8	11
27	Solar-driven H2 evolution over CuNb2O6: Effect of two polymorphs (monoclinic and orthorhombic) on optical property and photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 263-271.	2.0	19
28	Performance as electrode of electrical double layer capacitor of activated carbon prepared from bamboo using guanidine phosphate and CO2 activation. Journal of Porous Materials, 2017, 24, 1507-1512.	1.3	6
29	Effect of core@shell (Au@Ag) nanostructure on surface plasmon-induced photocatalytic activity under visible light irradiation. Applied Catalysis B: Environmental, 2017, 211, 11-17.	10.8	45
30	Platinum and indium sulfide-modified Cu₃BiS₃photocathode for photoelectrochemical hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 10450-10456.	5.2	30
31	Improvement of selectivity for CO₂ reduction by using Cu₂ZnSnS₄ electrodes modified with different buffer layers (CdS and) Tj ETQq1 1 0.784314 rgBT /Overlock	1.74	24
32	Photoelectrochemical CO2 reduction by a p-type boron-doped g-C3N4 electrode under visible light. Applied Catalysis B: Environmental, 2016, 192, 193-198.	10.8	292
33	New approach for synthesis of activated carbon from bamboo. Journal of Porous Materials, 2016, 23, 349-355.	1.3	19
34	(Au@Ag)@Au double shell nanoparticles loaded on rutile TiO2 for photocatalytic decomposition of 2-propanol under visible light irradiation. Applied Catalysis B: Environmental, 2016, 180, 255-262.	10.8	59
35	Catalytic Graphitization for Preparation of Porous Carbon Material Derived from Bamboo Precursor and Performance as Electrode of Electrical Double-Layer Capacitor. Journal of Electronic Materials, 2015, 44, 4933-4939.	1.0	12
36	Dependence of photocatalytic activity on aspect ratio of a brookite TiO2 nanorod and drastic improvement in visible light responsibility of a brookite TiO2 nanorod by site-selective modification of Fe3+ on exposed faces. Journal of Molecular Catalysis A, 2015, 396, 261-267.	4.8	31

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37	Spherical activated carbon derived from spherical cellulose and its performance as EDLC electrode. Journal of Applied Polymer Science, 2014, 131, .	1.3	7
38	Synthesis of nanofibrous carbon with herringbone structure on Ni-supported SiC particles using hot CVD apparatus. Diamond and Related Materials, 2014, 48, 104-109.	1.8	1
39	Improvement of Thermoelectric Performance for Sb-Doped SnO2 Ceramics Material by Addition of Cu as Sintering Additive. Journal of Electronic Materials, 2014, 43, 3567-3573.	1.0	18
40	Performance of carbon material derived from starch mixed with flame retardant as electrochemical capacitor. Journal of Power Sources, 2014, 267, 635-640.	4.0	10
41	Solution-processed amorphous niobium oxide as a novel electron collection layer for inverted polymer solar cells. Chemical Physics Letters, 2013, 586, 81-84.	1.2	7
42	Effect of electrochemical treatment in H2SO4 aqueous solution on carbon material derived from cellulose with added guanidine phosphate. Journal of Power Sources, 2013, 225, 150-156.	4.0	4
43	Capacitance property of carbon material derived from starch mixed with guanidine phosphate as electrochemical capacitor. Journal of Power Sources, 2013, 227, 24-30.	4.0	12
44	Development of highly efficient sulfur-doped TiO2 photocatalysts hybridized with graphitic carbon nitride. Applied Catalysis B: Environmental, 2013, 142-143, 362-367.	10.8	101
45	Synthesis of diamond film and UNCD on BeCu substrate by hot filament CVD. Journal of the Ceramic Society of Japan, 2013, 121, 187-194.	0.5	1
46	Photocatalytic Reduction of Carbon Dioxide over Shape-Controlled Titanium(IV) Oxide Nanoparticles with Co-catalyst Loading. Current Organic Chemistry, 2013, 17, 2449-2453.	0.9	16
47	Improvement of Electrical Conductivity While Maintaining a High-Transmittance of Graphene Oxide/MWCNT Film by Hydrazine Reduction. Journal of Nanoscience and Nanotechnology, 2012, 12, 6930-6934.	0.9	7
48	Dependence of photocatalytic activity on particle size of a shape-controlled anatase titanium(IV) oxide nanocrystal. Journal of Molecular Catalysis A, 2012, 358, 106-111.	4.8	31
49	Chemical modification of diamond surface with linoleic acid by using benzoyl peroxide. Diamond and Related Materials, 2011, 20, 584-587.	1.8	5
50	Highly Improved Quantum Efficiencies for Thin Film BiVO₄ Photoanodes. Journal of Physical Chemistry C, 2011, 115, 17594-17598.	1.5	386
51	Photocatalytic reaction over iron hydroxides: A novel visible-light-responsive photocatalyst. Catalysis Communications, 2011, 12, 341-344.	1.6	19
52	Performance of nitrogen- and sulfur-containing carbon material derived from thiourea and formaldehyde as electrochemical capacitor. Journal of Power Sources, 2011, 196, 10455-10460.	4.0	57
53	Dependence of Photocatalytic Activity on Aspect Ratio of Shape-Controlled Rutile Titanium(IV) Oxide Nanorods. Journal of Physical Chemistry C, 2011, 115, 419-424.	1.5	59
54	Improvement of capacitance value as the electrode of an electrochemical capacitor by mixing starch with guanidine phosphate. Journal of Power Sources, 2011, 196, 5769-5773.	4.0	21

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55	Development of a visible-light-responsive rutile rod by site-selective modification of iron(III) ion on {1 1 1} exposed crystal faces. Applied Catalysis B: Environmental, 2010, 97, 115-119.	10.8	61
56	Chemical modification of diamond powder with optically active functionalities and its chiral recognition behavior. Applied Surface Science, 2010, 257, 1368-1370.	3.1	11
57	Control of the crystal structure of titanium(IV) oxide by hydrothermal treatment of a titanate nanotube under acidic conditions. CrystEngComm, 2010, 12, 532-537.	1.3	17
58	Characterization and photocatalytic performance of carbon nanotube material-modified TiO2 synthesized by using the hot CVD process. Applied Catalysis B: Environmental, 2009, 91, 533-538.	10.8	26
59	Development of a visible-light-responsive titania nanotube photocatalyst by site-selective modification with hetero metal ions. Applied Catalysis B: Environmental, 2009, 92, 56-60.	10.8	18
60	Photochemical modification of diamond powders with elemental sulfur and their surface-attachment behavior on gold surfaces. Physical Chemistry Chemical Physics, 2009, 11, 730-734.	1.3	32
61	Novel hydrothermal preparation of pure brookite-type titanium(IV) oxide nanocrystal under strong acidic conditions. Catalysis Communications, 2009, 10, 963-966.	1.6	43
62	Shape-Controlled Anatase Titanium(IV) Oxide Particles Prepared by Hydrothermal Treatment of Peroxo Titanic Acid in the Presence of Polyvinyl Alcohol. Journal of Physical Chemistry C, 2009, 113, 3062-3069.	1.5	280
63	Development of an S-doped titania nanotube (TNT) site-selectively loaded with iron(III) oxide and its photocatalytic activities. Applied Catalysis B: Environmental, 2008, 84, 584-590.	10.8	38
64	Development of a titania nanotube (TNT) loaded site-selectively with Pt nanoparticles and their photocatalytic activities. Applied Catalysis A: General, 2008, 337, 105-109.	2.2	30
65	Switching redox site of photocatalytic reaction on titanium(IV) oxide particles modified with transition-metal ion controlled by irradiation wavelength. Applied Catalysis A: General, 2008, 348, 148-152.	2.2	159
66	Development of metal cation compound-loaded S-doped TiO2 photocatalysts having a rutile phase under visible light. Applied Catalysis A: General, 2008, 349, 70-75.	2.2	45
67	Thermoelectric properties of Sn1â^'xâ^'yTiySbxO2 ceramics. Journal of Alloys and Compounds, 2008, 463, 288-293.	2.8	33
68	Photocatalytic Hydrogen or Oxygen Evolution from Water over S- or N-Doped TiO2under Visible Light. International Journal of Photoenergy, 2008, 2008, 1-7.	1.4	30
69	Synthesis of carbon nanotube in organic liquids carbon source on La2NiO4 ceramics catalyst. Journal of the Ceramic Society of Japan, 2008, 116, 284-287.	0.5	0
70	Visible-Light-Induced Hydrophilic Conversion of an S-Doped TiO2 Thin Film and Its Photocatalytic Activity for Decomposition of Acetaldehyde in Gas Phase. Journal of the Ceramic Society of Japan, 2007, 115, 310-314.	1.3	4
71	New Method for the Synthesis of a Photocatalyst by Using Intercalation of Amines in K2Ti4O9. Journal of Advanced Oxidation Technologies, 2007, 10, .	0.5	0
72	CVD Synthesis of single-walled carbon nanotubes from CH4 gas by using zeolite. Tanso, 2007, 2007, 310-315.	0.1	0

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73	Incident light dependence for photocatalytic degradation of acetaldehyde and acetic acid on S-doped and N-doped TiO2 photocatalysts. Chemical Physics, 2007, 339, 64-72.	0.9	77
74	Practical and convenient synthesis of coumarins from phenols and propiolic acid esters. Nature Protocols, 2007, 2, 845-848.	5.5	6
75	Synthesis of carbon/limonite composite through CVD method. Tanso, 2007, 2007, 324-328.	0.1	0
76	Introduction of molecules containing a NO2 group on diamond surface by using radical reaction in liquid phase. Diamond and Related Materials, 2006, 15, 668-672.	1.8	18
77	Selective oxidation of aldehydes on TiO2 photocatalysts modified with functional groups. Journal of Molecular Catalysis A, 2006, 245, 47-54.	4.8	17
78	Preparation of S, C cation-codoped SrTiO3 and its photocatalytic activity under visible light. Applied Catalysis A: General, 2005, 288, 74-79.	2.2	166
79	Photocatalytic partial oxidation of methylpyridine isomers on TiO2 particles under an anaerobic condition. Journal of Applied Electrochemistry, 2005, 35, 783-791.	1.5	7
80	Selective oxidation of benzaldehyde derivatives on TiO2 photocatalysts modified with fluorocarbon group. Catalysis Letters, 2005, 102, 207-210.	1.4	12
81	Composite electroplating of Ni and surface-modified diamond particles with silane coupling regent. Diamond and Related Materials, 2005, 14, 608-612.	1.8	46
82	Chemical modification of diamond surface with various carboxylic acids by radical reaction in liquid phase. Diamond and Related Materials, 2004, 13, 1093-1097.	1.8	40
83	Photocatalytic Activity of a TiO2 Photocatalyst Doped with C4+ and S4+ Ions Having a Rutile Phase Under Visible Light. Catalysis Letters, 2004, 98, 255-258.	1.4	151
84	Degradation of Methylene Blue on Carbonate Species-doped TiO2Photocatalysts under Visible Light. Chemistry Letters, 2004, 33, 750-751.	0.7	150
85	Oxidation of Aldehydes on TiO2Photocatalysts Modified with Alkylsilyl Group. Chemistry Letters, 2004, 33, 1610-1611.	0.7	9
86	Chemical reaction of hydrogenated diamond surface with peroxide radical initiators. Diamond and Related Materials, 2003, 12, 601-605.	1.8	34
87	Chemical Modification of the Diamond Surface Using Benzoyl Peroxide and Dicarboxylic Acids. Langmuir, 2003, 19, 9693-9698.	1.6	30
88	Electrical properties of boron-doped diamond films synthesized by MPCVD on an iridium substrate. Diamond and Related Materials, 2003, 12, 1396-1401.	1.8	10
89	Chemical modification of diamond surface with CH3(CH2)nCOOH using benzoyl peroxide. Physical Chemistry Chemical Physics, 2003, 5, 1474-1480.	1.3	30
90	Chemical Modification of Diamond Surface with Long Alkyl Chain Containing Carboxylic Acid in Benzoyl Peroxide Containing Organic Solution. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2003, 54, 758-763.	0.1	0

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91	Chemical Reaction of Carbonyl Group on Diamond Surface with LiAlH4. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2003, 54, 764-768.	0.1	1
92	Reactivity of the hydrogen atoms on diamond surface with various radical initiators in mild condition. Diamond and Related Materials, 2002, 11, 1360-1365.	1.8	22
93	Chemical modification of diamond surface using a diacyl peroxide as radical initiator and CN group-containing compounds for the introduction of the CN group. Physical Chemistry Chemical Physics, 2002, 4, 3881-3886.	1.3	41
94	Chemical modification of hydrogenated diamond surface using benzoyl peroxides. Physical Chemistry Chemical Physics, 2002, 4, 806-811.	1.3	65
95	Abstraction of hydrogen atoms on diamond surface using benzoyl peroxide as a radical initiator. Diamond and Related Materials, 2002, 11, 1374-1378.	1.8	20
96	Heteroepitaxial growth of diamond on an iridium (100) substrate using microwave plasma-assisted chemical vapor deposition. Diamond and Related Materials, 2000, 9, 1380-1387.	1.8	47
97	Surface modification of hydrogenated diamond powder by radical reactions in chloroform solutions. Diamond and Related Materials, 2000, 9, 219-223.	1.8	17
98	Electrical properties of homoepitaxial boron-doped diamond thin films grown by chemical vapor deposition using trimethylboron as dopant. Diamond and Related Materials, 1999, 8, 42-47.	1.8	7
99	Transport properties and thermoelectric performance of (Zn1â^'yMgy)1â^'xAlxO. Journal of Materials Chemistry, 1998, 8, 409-412.	6.7	83
100	Thermoelectric properties of Al-doped ZnO as a promising oxide material for high-temperature thermoelectric conversion. Journal of Materials Chemistry, 1997, 7, 85-90.	6.7	421
101	Highâ€temperature thermoelectric properties of (Zn1â^'xAlx)O. Journal of Applied Physics, 1996, 79, 1816-1818.	1.1	575