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	Highâ€temperature thermoelectric properties of (Zn1â^'xAlx)O. Journal of Applied Physics, 1996, 79, 1816-1818.	1.1	575
2	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
3	Highly Improved Quantum Efficiencies for Thin Film BiVO₄ Photoanodes. Journal of Physical Chemistry C, 2011, 115, 17594-17598.	1.5	386
4	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
5	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
6	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
7	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
8	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
9	Degradation of Methylene Blue on Carbonate Species-doped TiO2Photocatalysts under Visible Light. Chemistry Letters, 2004, 33, 750-751.	0.7	150
10	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
11	Transport properties and thermoelectric performance of (Zn1â^'yMgy)1â^'xAlxO. Journal of Materials Chemistry, 1998, 8, 409-412.	6.7	83
12	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
13	Chemical modification of hydrogenated diamond surface using benzoyl peroxides. Physical Chemistry Chemical Physics, 2002, 4, 806-811.	1.3	65
14	Activated carbon produced from bamboo and solid residue by CO2 activation utilized as CO2 adsorbents. Biomass and Bioenergy, 2021, 148, 106039.	2.9	63
15	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
16	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
17	(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
18	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

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19	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
20	Composite electroplating of Ni and surface-modified diamond particles with silane coupling regent. Diamond and Related Materials, 2005, 14, 608-612.	1.8	46
21	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
22	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
23	Novel hydrothermal preparation of pure brookite-type titanium(IV) oxide nanocrystal under strong acidic conditions. Catalysis Communications, 2009, 10, 963-966.	1.6	43
24	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
25	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
26	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
27	Chemical reaction of hydrogenated diamond surface with peroxide radical initiators. Diamond and Related Materials, 2003, 12, 601-605.	1.8	34
28	Thermoelectric properties of Sn1â^'xâ^'yTiySbxO2 ceramics. Journal of Alloys and Compounds, 2008, 463, 288-293.	2.8	33
29	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
30	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
31	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
32	Surface Functionalization of Biochar from Oil Palm Empty Fruit Bunch through Hydrothermal Process. Processes, 2021, 9, 149.	1.3	31
33	Chemical Modification of the Diamond Surface Using Benzoyl Peroxide and Dicarboxylic Acids. Langmuir, 2003, 19, 9693-9698.	1.6	30
34	Chemical modification of diamond surface with CH3(CH2)nCOOH using benzoyl peroxide. Physical Chemistry Chemical Physics, 2003, 5, 1474-1480.	1.3	30
35	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
36	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

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37	Platinum and indium sulfide-modified Cu₃BiS₃photocathode for photoelectrochemical hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 10450-10456.	5.2	30
38	Potential heterogeneous nano-catalyst via integrating hydrothermal carbonization for biodiesel production using waste cooking oil. Chemosphere, 2022, 286, 131913.	4.2	30
39	The investigation of activated carbon by K2CO3 activation: Micropores- and macropores-dominated structure. Chemosphere, 2022, 299, 134365.	4.2	29
40	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
41	Improvement of selectivity for CO₂ reduction by using Cu₂ZnSnS₄ electrodes modified with different buffer layers (CdS and) Tj ETQq1 1 0.784314 rgBT /Overlock	1.4	24
42	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
43	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
44	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
45	Utilization of pine tree biochar produced by flame-curtain pyrolysis in two non-agricultural applications. Bioresource Technology Reports, 2020, 9, 100384.	1.5	21
46	Evolution of physico-chemical properties of Dicranopteris linearis-derived activated carbon under various physical activation atmospheres. Scientific Reports, 2021, 11, 14430.	1.6	21
47	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
48	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
49	Photocatalytic reaction over iron hydroxides: A novel visible-light-responsive photocatalyst. Catalysis Communications, 2011, 12, 341-344.	1.6	19
50	New approach for synthesis of activated carbon from bamboo. Journal of Porous Materials, 2016, 23, 349-355.	1.3	19
51	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
52	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
53	Release kinetics of potassium from silicaâ€rich fernâ€derived biochars. Agronomy Journal, 2020, 112, 1713-1725.	0.9	19
54	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

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55	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
56	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
57	Conversion of Waste Polyethylene Terephthalate (PET) Polymer into Activated Carbon and Its Feasibility to Produce Green Fuel. Polymers, 2021, 13, 3952.	2.0	18
58	Surface modification of hydrogenated diamond powder by radical reactions in chloroform solutions. Diamond and Related Materials, 2000, 9, 219-223.	1.8	17
59	Selective oxidation of aldehydes on TiO2 photocatalysts modified with functional groups. Journal of Molecular Catalysis A, 2006, 245, 47-54.	4.8	17
60	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
61	CO₂activation of bamboo residue after hydrothermal treatment and performance as an EDLC electrode. RSC Advances, 2021, 11, 9682-9692.	1.7	17
62	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
63	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
64	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
65	Selective oxidation of benzaldehyde derivatives on TiO2 photocatalysts modified with fluorocarbon group. Catalysis Letters, 2005, 102, 207-210.	1.4	12
66	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
67	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
68	Chemical modification of diamond powder with optically active functionalities and its chiral recognition behavior. Applied Surface Science, 2010, 257, 1368-1370.	3.1	11
69	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
70	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
71	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
72	Kinetic and structural changes during gasification of cashew nut shell char particles. Environmental Progress and Sustainable Energy, 2021, 40, e13580.	1.3	10

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73	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
74	Oxidation of Aldehydes on TiO2Photocatalysts Modified with Alkylsilyl Group. Chemistry Letters, 2004, 33, 1610-1611.	0.7	9
75	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
76	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
77	Photocatalytic partial oxidation of methylpyridine isomers on TiO2 particles under an anaerobic condition. Journal of Applied Electrochemistry, 2005, 35, 783-791.	1.5	7
78	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
79	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
80	Spherical activated carbon derived from spherical cellulose and its performance as EDLC electrode. Journal of Applied Polymer Science, 2014, 131, .	1.3	7
81	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
82	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
83	Fungicide application can intensify clay aggregation and exacerbate copper accumulation in citrus soils. Environmental Pollution, 2021, 288, 117703.	3.7	7
84	Practical and convenient synthesis of coumarins from phenols and propiolic acid esters. Nature Protocols, 2007, 2, 845-848.	5.5	6
85	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
86	Towards Engineered Hydrochars: Application of Artificial Neural Networks in the Hydrothermal Carbonization of Sewage Sludge. Energies, 2021, 14, 3000.	1.6	6
87	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
88	Chemical modification of diamond surface with linoleic acid by using benzoyl peroxide. Diamond and Related Materials, 2011, 20, 584-587.	1.8	5
89	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
90	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

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91	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
92	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
93	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
94	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
95	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
96	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
97	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
98	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
99	CVD Synthesis of single-walled carbon nanotubes from CH4 gas by using zeolite. Tanso, 2007, 2007, 310-315.	0.1	0
100	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
101	Synthesis of carbon/limonite composite through CVD method. Tanso, 2007, 2007, 324-328.	0.1	0