

Toshiya Watanabe

List of Publications by Year in descending order

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69
papers

17,199
citations

117571

34
h-index

110317

64
g-index

71
all docs

71
docs citations

71
times ranked

16022
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-induced amphiphilic surfaces. <i>Nature</i> , 1997, 388, 431-432.	13.7	3,161
2	A Plasmonic Photocatalyst Consisting of Silver Nanoparticles Embedded in Titanium Dioxide. <i>Journal of the American Chemical Society</i> , 2008, 130, 1676-1680.	6.6	1,422
3	Effects of the Surface Roughness on Sliding Angles of Water Droplets on Superhydrophobic Surfaces. <i>Langmuir</i> , 2000, 16, 5754-5760.	1.6	1,182
4	Detection of active oxidative species in TiO ₂ photocatalysis using the fluorescence technique. <i>Electrochemistry Communications</i> , 2000, 2, 207-210.	2.3	1,048
5	Effects of Surface Structure on the Hydrophobicity and Sliding Behavior of Water Droplets. <i>Langmuir</i> , 2002, 18, 5818-5822.	1.6	1,048
6	Photogeneration of Highly Amphiphilic TiO ₂ Surfaces. <i>Advanced Materials</i> , 1998, 10, 135-138.	11.1	800
7	Photoinduced Surface Wettability Conversion of ZnO and TiO ₂ Thin Films. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1984-1990.	1.2	723
8	Recent Studies on Super-Hydrophobic Films. <i>Monatshefte für Chemie</i> , 2001, 132, 31-41.	0.9	702
9	Quantum yields of active oxidative species formed on TiO ₂ photocatalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 134, 139-142.	2.0	694
10	Transparent Superhydrophobic Thin Films with Self-Cleaning Properties. <i>Langmuir</i> , 2000, 16, 7044-7047.	1.6	677
11	Studies of Surface Wettability Conversion on TiO ₂ Single-Crystal Surfaces. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2188-2194.	1.2	650
12	Studies on photokilling of bacteria on TiO ₂ thin film. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 156, 227-233.	2.0	634
13	Photocatalysis and Photoinduced Hydrophilicity of Various Metal Oxide Thin Films. <i>Chemistry of Materials</i> , 2002, 14, 2812-2816.	3.2	601
14	Quantitative Evaluation of the Photoinduced Hydrophilic Conversion Properties of TiO ₂ Thin Film Surfaces by the Reciprocal of Contact Angle. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1028-1035.	1.2	459
15	Enhancement of the Photoinduced Hydrophilic Conversion Rate of TiO ₂ Film Electrode Surfaces by Anodic Polarization. <i>Journal of Physical Chemistry B</i> , 2001, 105, 3023-3026.	1.2	324
16	Preparation of hard super-hydrophobic films with visible light transmission. <i>Thin Solid Films</i> , 2000, 376, 140-143.	0.8	323
17	Bactericidal Activity of Copper-Deposited TiO ₂ Thin Film under Weak UV Light Illumination. <i>Environmental Science & Technology</i> , 2003, 37, 4785-4789.	4.6	299
18	Effect of Ultrasonic Treatment on Highly Hydrophilic TiO ₂ Surfaces. <i>Langmuir</i> , 1998, 14, 5918-5920.	1.6	297

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19	Photoinduced Surface Reactions on TiO ₂ and SrTiO ₃ Films: Photocatalytic Oxidation and Photoinduced Hydrophilicity. <i>Chemistry of Materials</i> , 2000, 12, 3-5.	3.2	257
20	Reversible wettability control of TiO ₂ surface by light irradiation. <i>Surface Science</i> , 2002, 511, 401-407.	0.8	197
21	Generation and Deactivation Processes of Superoxide Formed on TiO ₂ Film Illuminated by Very Weak UV Light in Air or Water. <i>Journal of Physical Chemistry B</i> , 2000, 104, 4934-4938.	1.2	169
22	Photoinduced Hydrophilic Conversion of TiO ₂ /WO ₃ Layered Thin Films. <i>Chemistry of Materials</i> , 2002, 14, 4714-4720.	3.2	150
23	Photocatalysis by Calcium Hydroxyapatite Modified with Ti(IV): Albumin Decomposition and Bactericidal Effect. <i>Langmuir</i> , 2003, 19, 3428-3431.	1.6	140
24	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 71-76.	1.1	135
25	Photoinduced Amphiphilic Surface on Polycrystalline Anatase TiO ₂ Thin Films. <i>Langmuir</i> , 2000, 16, 7048-7050.	1.6	123
26	Effect of repeated photo-illumination on the wettability conversion of titanium dioxide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 146, 129-132.	2.0	99
27	Comparison of photochemical properties of brookite and anatase TiO ₂ films. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1359.	1.3	86
28	Sliding Behavior of Water Droplets on Flat Polymer Surface. <i>Journal of the American Chemical Society</i> , 2006, 128, 743-747.	6.6	61
29	Palladium-Catalyzed Allylation of Imines with Allyl Alcohols. <i>Organic Letters</i> , 2005, 7, 637-640.	2.4	57
30	Super-hydrophobic photocatalytic coatings utilizing apatite-based photocatalyst. <i>Thin Solid Films</i> , 2006, 502, 108-111.	0.8	57
31	Jump of water droplet from a super-hydrophobic film by vertical electric field. <i>Surface Science</i> , 2002, 519, L589-L592.	0.8	41
32	Preparation of a crack-free rough titania coating on stainless steel mesh by electrophoretic deposition. <i>Materials Research Bulletin</i> , 2005, 40, 1335-1344.	2.7	40
33	Highly Hydrophilic Surfaces of Cathodically Polarized Amorphous TiO ₂ Electrodes. <i>Journal of the Electrochemical Society</i> , 2001, 148, E395.	1.3	38
34	Wettability of ceramic surfaces -A wide range control of surface wettability from super hydrophilicity to super hydrophobicity, from static wettability to dynamic wettability. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 1285-1292.	0.5	37
35	Control of Water Droplets on Super-Hydrophobic Surfaces by Static Electric Field. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 287-291.	0.8	34
36	Preparation and properties of titania-apatite hybrid films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 177, 94-99.	2.0	34

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37	The sp ³ bond fraction in carbon films prepared by mass-separated ion beam deposition. <i>Diamond and Related Materials</i> , 2001, 10, 895-899.	1.8	31
38	Photoinduced surface roughness variation in polycrystalline TiO ₂ thin films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 180, 75-79.	2.0	31
39	Effect of microstructure on photoinduced hydrophilicity of transparent anatase thin films. <i>Surface Science</i> , 2005, 579, 123-130.	0.8	28
40	Sliding Mode Transition of Water Droplet on the Silicon Surface Coated with Octadecyltrichlorosilane. <i>Chemistry Letters</i> , 2003, 32, 1148-1149.	0.7	26
41	Band gap and photocatalytic properties of Ti-substituted hydroxyapatite: Comparison with anatase-TiO ₂ . <i>Journal of Molecular Catalysis A</i> , 2011, 338, 18-18.	4.8	26
42	Tribological properties of diamond-like carbon films prepared by mass-separated ion beam deposition. <i>Diamond and Related Materials</i> , 2002, 11, 1130-1134.	1.8	24
43	Wettability control of a solid surface by utilizing photocatalysis. <i>Chemical Record</i> , 2008, 8, 279-290.	2.9	24
44	Preparation and Water Droplet Sliding Properties of Transparent Hydrophobic Polymer Coating by Molecular Design for Self-Organization. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 31, 195-199.	1.1	20
45	Surface structure and visible light photocatalytic activity of titanium-calcium hydroxyapatite modified with Cr(III). <i>Advanced Powder Technology</i> , 2011, 22, 498-503.	2.0	19
46	Recent Studies on Super-Hydrophobic Films. , 2001, , 31-41.		19
47	Development of Plasma Based Ion Implantation System using an Electron Cyclotron Resonance Plasma Source with a Mirror Field and Synthesis of Carbon Thin Films. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 4684-4690.	0.8	17
48	Photoinduced surface roughness variation in polycrystalline TiO ₂ thin films under different atmospheres. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 190, 53-57.	2.0	14
49	Light Intensity Dependent Behavior of Active Oxygen Species Formed at TiO ₂ Film and Water Interface. <i>Electrochemistry</i> , 2001, 69, 160-164.	0.6	13
50	Synthesis of amorphous carbon films by plasma-based ion implantation using ECR plasma with a mirror field. <i>Surface and Coatings Technology</i> , 2002, 156, 317-321.	2.2	13
51	Formation of a-C thin films by plasma-based ion implantation. <i>Science and Technology of Advanced Materials</i> , 2001, 2, 539-545.	2.8	12
52	Structure of carbon nitride films prepared by mass-separated low-energy ion beam deposition. <i>Diamond and Related Materials</i> , 2003, 12, 1061-1065.	1.8	11
53	Preparation of Transparent Thin Film of Novel Apatite-based Photocatalyst. <i>Chemistry Letters</i> , 2005, 34, 1666-1667.	0.7	9
54	Effects of Thermal and Evacuating Treatments on Photo-induced Hydrophilic Conversion at TiO ₂ Surfaces. <i>Electrochemistry</i> , 2000, 68, 779-782.	0.6	8

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55	Tribological properties of a-C:H films coated by the PBI method. <i>Diamond and Related Materials</i> , 2003, 12, 105-109.	1.8	7
56	Dependence of photoinduced surface friction force variation on UV intensity and atmosphere in polycrystalline TiO ₂ thin films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 203, 155-160.	2.0	7
57	Influence of DC Biasing on the Formation of Hydrogenated Amorphous Carbon Films Using a Plasma-Based Ion Implantation Technique. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 6165-6168.	0.8	6
58	Synthesis of amorphous carbon films by plasma-based ion implantation with simultaneous application of DC and pulse bias. <i>Diamond and Related Materials</i> , 2003, 12, 2083-2087.	1.8	6
59	Preparation and characterization of TiO ₂ thin films using vacuum ultraviolet light in a sol-gel process. <i>Surface Science</i> , 2005, 596, 197-205.	0.8	6
60	KNOWLEDGE MANAGEMENT USING EXTERNAL KNOWLEDGE. <i>International Journal of Innovation Management</i> , 2017, 21, 1750031.	0.7	6
61	Carbon films deposited with mass-selected carbon ion beams under substrate heating. <i>Surface and Coatings Technology</i> , 2003, 169-170, 328-331.	2.2	5
62	Effect of substrate temperature on the structure and chemical bonds of carbon films deposited with a mass-separated carbon ion beam. <i>Diamond and Related Materials</i> , 2003, 12, 2088-2092.	1.8	4
63	The influence of DC biasing on the uniformity of a-C:H films for three-dimensional substrates by using a plasma-based ion implantation technique. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 206, 726-730.	0.6	3
64	Sol-Gel-Processed Photocatalytic Titania Films. , 2018, , 2695-2728.		1
65	Sol-Gel Processed Photocatalytic Titania Films. , 2016, , 1-35.		1
66	Effective Recruitment of Engineers From Other Companies: Whether to Pull Individuals or Teams?. <i>International Journal of Innovation and Technology Management</i> , 2022, 19, .	0.8	1
67	Synthesis of a-C thin films by plasma-based ion implantation using an electron cyclotron resonance plasma source with a mirror field. <i>Surface and Coatings Technology</i> , 2003, 169-170, 266-269.	2.2	0
68	Palladium-Catalyzed Allylation of Imines with Allyl Alcohols.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
69	ãf•ãffçæ»ãšDLcè†œã®é™èEç%1æ€Sã•ãf`ãf ©ã,ãfœãfã,ãf¼. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 20		