Toshiya Watanabe

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69 papers	15,462 citations	34 h-index	71 g-index
71 ext. papers	16,194 ext. citations	4.9 avg, IF	6.03 L-index

#	Paper	IF	Citations
69	Sol-Gel-Processed Photocatalytic Titania Films **2018**, 2695-2728		1
68	KNOWLEDGE MANAGEMENT USING EXTERNAL KNOWLEDGE. *International Journal of Innovation Management*, **2017**, 21, 1750031	1.5	2
67	Sol-Gel Processed Photocatalytic Titania Films **2016**, 1-35		
66	Band gap and photocatalytic properties of Ti-substituted hydroxyapatite: Comparison with anatase-TiO2. *Journal of Molecular Catalysis A*, **2011**, 338, 18-18		17
65	Surface structure and visible light photocatalytic activity of titanium□alcium hydroxyapatite modified with Cr(III). *Advanced Powder Technology*, **2011**, 22, 498-503	4.6	14
64	Dependence of photoinduced surface friction force variation on UV intensity and atmosphere in polycrystalline TiO2 thin films. *Journal of Photochemistry and Photobiology A: Chemistry*, **2009**, 203, 155-160	4.7	7
63	Wettability of ceramic surfaces -A wide range control of surface wettability from super hydrophilicity to super hydrophobicity, from static wettability to dynamic wettability. *Journal of the Ceramic Society of Japan*, **2009**, 117, 1285-1292	1	27
62	A plasmonic photocatalyst consisting of silver nanoparticles embedded in titanium dioxide. *Journal of the American Chemical Society*, **2008**, 130, 1676-80	16.4	1301
61	Wettability control of a solid surface by utilizing photocatalysis. *Chemical Record*, **2008**, 8, 279-90	6.6	16
60	?????DLC??????????????. *Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan*, **2007**, 58, 13-17	0.1	
59	Photoinduced surface roughness variation in polycrystalline TiO2 thin films under different atmospheres. *Journal of Photochemistry and Photobiology A: Chemistry*, **2007**, 190, 53-57	4.7	12
58	Sliding behavior of water droplets on flat polymer surface. *Journal of the American Chemical Society* , **2006**, 128, 743-7	16.4	56
57	Preparation and properties of titania□patite hybrid films. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 177, 94-99	4.7	34
56	Photoinduced surface roughness variation in polycrystalline TiO2 thin films. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 180, 75-79	4.7	29
55	Super-hydrophobic photocatalytic coatings utilizing apatite-based photocatalyst. *Thin Solid Films*, **2006**, 502, 108-111	2.2	52
54	Palladium-catalyzed allylation of imines with allyl alcohols. *Organic Letters*, **2005**, 7, 637-40	6.2	52
53	Preparation of Transparent Thin Film of Novel Apatite-based Photocatalyst. *Chemistry Letters*, **2005** , 34, 1666-1667	1.7	9

52	Preparation of a crack-free rough titania coating on stainless steel mesh by electrophoretic deposition. *Materials Research Bulletin*, **2005**, 40, 1335-1344	5.1	36
51	Effect of microstructure on photoinduced hydrophilicity of transparent anatase thin films. *Surface Science*, **2005**, 579, 123-130	1.8	26
50	Preparation and characterization of TiO2 thin films using vacuum ultraviolet light in a sol□gel process. *Surface Science*, **2005**, 596, 197-205	1.8	6
49	Preparation and Water Droplet Sliding Properties of Transparent Hydrophobic Polymer Coating by Molecular Design for Self-Organization. *Journal of Sol-Gel Science and Technology*, **2004**, 31, 195-199	2.3	19
48	Comparison of photochemical properties of brookite and anatase TiO2 films. *Physical Chemistry Chemical Physics*, **2004**, 6, 1359	3.6	83
47	Sliding Mode Transition of Water Droplet on the Silicon Surface Coated with Octadecyltrichlorosilane. *Chemistry Letters*, **2003**, 32, 1148-1149	1.7	23
46	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. *Nuclear Instruments & Methods in Physics Research B*, **2003**, 206, 726-730	1.2	3
45	Synthesis of a-C thin films by plasma-based ion implantation using an electron cyclotron resonance plasma source with a mirror field. *Surface and Coatings Technology*, **2003**, 169-170, 266-269	4.4	
44	Carbon films deposited with mass-selected carbon ion beams under substrate heating. *Surface and Coatings Technology*, **2003**, 169-170, 328-331	4.4	4
43	Studies on photokilling of bacteria on TiO2 thin film. *Journal of Photochemistry and Photobiology A: Chemistry*, **2003**, 156, 227-233	4.7	565
42	Effect of substrate temperature on the structure and chemical bonds of carbon films deposited with a mass-separated carbon ion beam. *Diamond and Related Materials*, **2003**, 12, 2088-2092	3.5	3
41	Synthesis of amorphous carbon films by plasma-based ion implantation with simultaneous application of DC and pulse bias. *Diamond and Related Materials*, **2003**, 12, 2083-2087	3.5	6
40	Tribological properties of a-C:H films coated by the PBII method. *Diamond and Related Materials*, **2003**, 12, 105-109	3.5	6
39	Structure of carbon nitride films prepared by mass-separated low-energy ion beam deposition. *Diamond and Related Materials*, **2003**, 12, 1061-1065	3.5	11
38	Bactericidal activity of copper-deposited TiO2 thin film under weak UV light illumination. *Environmental Science & Technology*, **2003**, 37, 4785-9	10.3	272
37	Quantitative Evaluation of the Photoinduced Hydrophilic Conversion Properties of TiO2 Thin Film Surfaces by the Reciprocal of Contact Angle. *Journal of Physical Chemistry B*, **2003**, 107, 1028-1035	3.4	421
36	Photocatalysis by Calcium Hydroxyapatite Modified with Ti(IV): Albumin Decomposition and Bactericidal Effect. *Langmuir*, **2003**, 19, 3428-3431	4	125
35	Synthesis of amorphous carbon films by plasma-based ion implantation using ECR plasma with a mirror field. *Surface and Coatings Technology*, **2002**, 156, 317-321	4.4	13

34	Reversible wettability control of TiO 2 surface by light irradiation. *Surface Science*, **2002**, 511, 401-407	1.8	171
33	Jump of water droplet from a super-hydrophobic film by vertical electric field. *Surface Science*, **2002**, 519, L589-L592	1.8	34
32	Control of Water Droplets on Super-Hydrophobic Surfaces by Static Electric Field. *Japanese Journal of Applied Physics*, **2002**, 41, 287-291	1.4	26
31	Influence of DC Biasing on the Formation of Hydrogenated Amorphous Carbon Films Using a Plasma-Based Ion Implantation Technique. *Japanese Journal of Applied Physics*, **2002**, 41, 6165-6168	1.4	6
30	Effects of Surface Structure on the Hydrophobicity and Sliding Behavior of Water Droplets. *Langmuir*, **2002**, 18, 5818-5822	4	937
29	Photoinduced Hydrophilic Conversion of TiO2/WO3 Layered Thin Films. *Chemistry of Materials*, **2002**, 14, 4714-4720	9.6	141
28	Photocatalysis and Photoinduced Hydrophilicity of Various Metal Oxide Thin Films. *Chemistry of Materials*, **2002**, 14, 2812-2816	9.6	541
27	Tribological properties of diamond-like carbon films prepared by mass-separated ion beam deposition. *Diamond and Related Materials*, **2002**, 11, 1130-1134	3.5	19
26	Recent Studies on Super-Hydrophobic Films. *Monatshefte F□ Chemie*, **2001**, 132, 31-41	1.4	643
25	Effect of repeated photo-illumination on the wettability conversion of titanium dioxide. *Journal of Photochemistry and Photobiology A: Chemistry*, **2001**, 146, 129-132	4.7	89
24	The sp3 bond fraction in carbon films prepared by mass-separated ion beam deposition. *Diamond and Related Materials*, **2001**, 10, 895-899	3.5	27
23	Development of Plasma Based Ion Implantation System using an Electron Cyclotron Resonance Plasma Source with a Mirror Field and Synthesis of Carbon Thin Films. *Japanese Journal of Applied Physics*, **2001**, 40, 4684-4690	1.4	15
22	Enhancement of the Photoinduced Hydrophilic Conversion Rate of TiO2 Film Electrode Surfaces by Anodic Polarization. *Journal of Physical Chemistry B*, **2001**, 105, 3023-3026	3.4	294
21	Photoinduced Surface Wettability Conversion of ZnO and TiO2 Thin Films. *Journal of Physical Chemistry B*, **2001**, 105, 1984-1990	3.4	660
20	Formation of a-C thin films by plasma-based ion implantation. *Science and Technology of Advanced Materials*, **2001**, 2, 539-545	7.1	12
19	Highly Hydrophilic Surfaces of Cathodically Polarized Amorphous TiO[sub 2] Electrodes. *Journal of the Electrochemical Society*, **2001**, 148, E395	3.9	37
18	Light Intensity Dependent Behavior of Active Oxygen Species Formed at TiO2 Film and Water Interface. *Electrochemistry*, **2001**, 69, 160-164	1.2	12
17	Recent Studies on Super-Hydrophobic Films **2001**, 31-41		14

16	Preparation of hard super-hydrophobic films with visible light transmission. *Thin Solid Films*, **2000**, 376, 140-143	2.2	276
15	Detection of active oxidative species in TiO2 photocatalysis using the fluorescence technique. *Electrochemistry Communications*, **2000**, 2, 207-210	5.1	941
14	Quantum yields of active oxidative species formed on TiO2 photocatalyst. *Journal of Photochemistry and Photobiology A: Chemistry*, **2000**, 134, 139-142	4.7	631
13	Photocatalytic Activity and Photo-Induced Wettability Conversion of TiO2 Thin Film Prepared by Sol-Gel Process on a Soda-Lime Glass. *Journal of Sol-Gel Science and Technology*, **2000**, 19, 71-76	2.3	121
12	Effects of the Surface Roughness on Sliding Angles of Water Droplets on Superhydrophobic Surfaces. *Langmuir*, **2000**, 16, 5754-5760	4	1039
11	Photoinduced Surface Reactions on TiO2 and SrTiO3 Films: Photocatalytic Oxidation and Photoinduced Hydrophilicity. *Chemistry of Materials*, **2000**, 12, 3-5	9.6	237
10	Generation and Deactivation Processes of Superoxide Formed on TiO2 Film Illuminated by Very Weak UV Light in Air or Water. *Journal of Physical Chemistry B*, **2000**, 104, 4934-4938	3.4	152
9	Transparent Superhydrophobic Thin Films with Self-Cleaning Properties. *Langmuir*, **2000**, 16, 7044-7047	4	625
8	Photoinduced Amphiphilic Surface on Polycrystalline Anatase TiO2 Thin Films. *Langmuir*, **2000**, 16, 7048-7050	4	108
7	Effects of Thermal and Evacuating Treatments on Photo-induced Hydrophilic Conversion at TiO2 Surfaces. *Electrochemistry*, **2000**, 68, 779-782	1.2	6
6	Studies of Surface Wettability Conversion on TiO2 Single-Crystal Surfaces. *Journal of Physical Chemistry B*, **1999**, 103, 2188-2194	3.4	586
5	Photogeneration of Highly Amphiphilic TiO2 Surfaces. *Advanced Materials*, **1998**, 10, 135-138	24	713
4	Effect of Ultrasonic Treatment on Highly Hydrophilic TiO2 Surfaces. *Langmuir*, **1998**, 14, 5918-5920	4	264
3	Light-induced amphiphilic surfaces. *Nature*, **1997**, 388, 431-432	50.4	2832
2	Effect of Functional Coatings on Topographical Properties of Glass. *Ceramic Transactions*,129-139	0.1	1
1	Characterization of Crystallized TiO2 Film by Post Plasma Treatment. *Ceramic Transactions*,149-160	0.1	1