Satoshi Fujii

List of Publications by Year in Descending Order

69 papers	951 citations	18 h-index	28 g-index
87 ext. papers	1,116 ext. citations	3.2 avg, IF	3.8 L-index

#	Paper	IF	Citations
69	Determining the influence of microwave-induced thermal unevenness on vanadium oxide catalyst particles. *Chemical Engineering Journal*, **2021**, 433, 133603	14.7	1
68	Reduction of metal oxides using thermogravimetry under microwave irradiation. *AIP Advances*, **2021**, 11, 065207	1.5	1
67	Activation of chemical reactions on solid catalysts under microwave irradiation **2021**, 27-69		
66	Hole Accumulation at the Grain Boundary Enhances Water Oxidation at □Fe2O3 Electrodes under a Microwave Electric Field. *Journal of Physical Chemistry C*, **2020**, 124, 7749-7759	3.8	4
65	A Facile Formation of Vanadium(0) by the Reduction of Vanadium Pentoxide Pelletized with Magnesium Oxide Enabled by Microwave Irradiation. *ChemistrySelect*, **2020**, 5, 2949-2953	1.8	3
64	Microwave Irradiation Process for Al-Sc Alloy Production. *Scientific Reports*, **2020**, 10, 2689	4.9	4
63	Operando Raman Spectroscopy of the Microwave-Enhanced Catalytic Dehydration of 2-Propanol by WO3. *Industrial & Engineering Chemistry Research*, **2020**, 59, 1781-1788	3.9	6
62	Ultra-fast pyrolysis of lignocellulose using highly tuned microwaves: synergistic effect of a cylindrical cavity resonator and a frequency-auto-tracking solid-state microwave generator. *Green Chemistry*, **2020**, 22, 342-351	10	18
61	Probing the temperature of supported platinum nanoparticles under microwave irradiation by in situ and operando XAFS. *Communications Chemistry*, **2020**, 3,	6.3	7
60	Real-Time Facile Detection of the WO Catalyst Oxidation State under Microwaves Using a Resonance Frequency. *ACS Omega*, **2020**, 5, 31957-31962	3.9	3
59	Insights into the Dielectric-Heating-Enhanced Regeneration of CO2-Rich Aqueous Amine Solutions. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13593-13599	8.3	2
58	Radio frequency alternating electromagnetic field enhanced tetraruthenium polyoxometalate electrocatalytic water oxidation. *Chemical Communications*, **2019**, 55, 1032-1035	5.8	6
57	Enhancement of Fixed-bed Flow Reactions under Microwave Irradiation by Local Heating at the Vicinal Contact Points of Catalyst Particles. *Scientific Reports*, **2019**, 9, 222	4.9	33
56	Raman monitoring of dielectric-heating-enhanced freeze-drying under different electromagnetic wave frequencies.. *RSC Advances*, **2019**, 9, 9001-9005	3.7	3
55	Study on Metal Smelting Process Under Microwave Irradiation. *Minerals, Metals and Materials Series* , **2018**, 171-172	0.3	
54	Proton-Enhanced Dielectric Properties of Polyoxometalates in Water under Radio-Frequency Electromagnetic Waves. *Materials*, **2018**, 11,	3.5	7
53	Physical Insight to Microwave Special Effects: Nonequilibrium Local Heating and Acceleration of Electron Transfer. *Journal of the Japan Petroleum Institute*, **2018**, 61, 98-105	1	9

52	Effect of Aspect Ratio on the Permittivity of Graphite Fiber in Microwave Heating. *Materials*, **2018**, 11,	3.5	4
51	Microwave-Driven Biorefinery for Utilization of Food and Agricultural Waste Biomass **2018**, 393-408		6
50	Smelting Magnesium Metal using a Microwave Pidgeon Method. *Scientific Reports*, **2017**, 7, 46512	4.9	23
49	Electromagnetic and Heat-Transfer Simulation of the Catalytic Dehydrogenation of Ethylbenzene under Microwave Irradiation. *Industrial & Engineering Chemistry Research*, **2017**, 56, 7685-7692	3.9	20
48	Microwave-Assisted Water Extraction of Carbohydrates From Unutilized Biomass **2017**, 199-219		2
47	Smelting of Scandium by Microwave Irradiation. *Materials*, **2017**, 10,	3.5	2
46	Microwave-Assisted Hydrothermal Processing of Seaweed Biomass **2017**, 443-460		2
45	. *IEEE Microwave and Wireless Components Letters*, **2016**, 26, 966-968	2.6	9
44	Enhancement of anodic current attributed to oxygen evolution on □FeO electrode by microwave oscillating electric field. *Scientific Reports*, **2016**, 6, 35554	4.9	7
43	Microwave-Induced Biomass Fractionation **2016**, 103-126		4
42	Sputter deposition of ScAlN using large size alloy target with high Sc content and reduction of Sc content in deposited films. *Japanese Journal of Applied Physics*, **2015**, 54, 07HD06	1.4	11
41	Microwave-enhanced photocatalysis on CdS quantum dots--Evidence of acceleration of photoinduced electron transfer. *Scientific Reports*, **2015**, 5, 11308	4.9	21
40	Highly c-axis-oriented ScAlN thin films deposited using Sc-Al alloy target **2015**,		3
39	Microwave sintering of Ag-nanoparticle thin films on a polyimide substrate. *AIP Advances*, **2015**, 5, 127226	1.5	18
38	Chemical Reaction under Highly Precise Microwave Irradiation. *Journal of Microwave Power and Electromagnetic Energy*, **2014**, 48, 89-103	1.4	6
37	Deposition of highly c-axis-oriented ScAlN thin films by RF magnetron sputtering using a Sc-Al alloy target **2014**,		2
36	One-port SAW resonators fabricated on single-crystal diamond **2013**,		2
35	Low propagation loss in a one-port SAW resonator fabricated on single-crystal diamond for super-high-frequency applications. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2013**, 60, 986-92	3.2	30

34	High-frequency SAW filters based on diamond films. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 2758-64	3.2	9
33	Methanol decomposition reaction using Pd/C as solid catalyst under highly precise microwave irradiation **2012**,		1
32	Low propagation loss in a one-port resonator fabricated on single-crystal diamond **2011**,		4
31	High-frequency surface acoustic wave filter based on diamond thin film. *Physica Status Solidi (A) Applications and Materials Science*, **2011**, 208, 1072-1077	1.6	14
30	A diamond substrate suitable for 5GHz SAW device application **2010**,		1
29	Fabrication of a film bulk acoustic wave resonator from nano-crystalline diamond. *Diamond and Related Materials*, **2009**, 18, 253-257	3.5	5
28	Development of a 6GHz resonator by using an AlN diamond structure **2008**,		2
27	P5I-4 Diamond Saw Resonators With SiO2/ZnO/IDT/ZnO/Diamond Structure. *Proceedings IEEE Ultrasonics Symposium*, **2007**,		1
26	Promoting Public Transport Using Marketing Techniques in Mobility Management and Verifying their Quantitative Effects. *Transportation*, **2007**, 34, 37-49	4	41
25	Effect of crystalline quality of diamond film to the propagation loss of surface acoustic wave devices. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2005**, 52, 1817-22	3.2	18
24	Diamond-based surface acoustic wave devices. *Semiconductor Science and Technology*, **2003**, 18, S96-S104	1.8	49
23	Low-Loss Diamond Surface Acoustic Wave Devices Using Small-Grain Poly-Crystalline Diamond. *Japanese Journal of Applied Physics*, **2002**, 41, 3476-3479	1.4	17
22	Novel self-assembled monolayers of disulfides with bicyclo[2.2.2]octane moieties of Au(111). *Chemical Communications*, **2001**, 1688-9	5.8	23
21	Defects in synthesized and natural diamond probed by positron annihilation. *Journal of Physics Condensed Matter*, **1999**, 11, 4109-4122	1.8	5
20	Annealing behaviours of defects in electron-irradiated diamond probed by positron annihilation. *Journal of Physics Condensed Matter*, **1999**, 11, 4925-4934	1.8	9
19	10 GHz narrow band SAW filters using diamond **1999**,		11
18	Study on Surface Acoustic Wave Characteristics of SiO2/Interdigital-Transducer/ZnO/Diamond Structure and Fabrication of 2.5 GHz Narrow Band Filter. *Japanese Journal of Applied Physics*, **1998**, 37, 2918-2922	1.4	45
17	Defects in the Ti/GaAs system probed by monoenergetic positron beams. *Journal of Physics Condensed Matter*, **1997**, 9, 6827-6835	1.8	2

16	High power durability of diamond surface acoustic wave filter. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **1997**, 44, 1395-1400	3.2	41
15	Study of various types of diamonds by measurements of double crystal x-ray diffraction and positron annihilation. *Journal of Applied Physics*, **1995**, 78, 1510-1513	2.5	19
14	Vacancy-Type Defects in Ion-Implanted Diamonds Probed by Monoenergetic Positron Beams. *Japanese Journal of Applied Physics*, **1995**, 34, 1772-1777	1.4	15
13	Characterization of Metal/GaAs Interfaces by Monoenergetic Positron Beam. *Japanese Journal of Applied Physics*, **1995**, 34, 5505-5509	1.4	2
12	. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **1995**, 42, 362-375	3.2	165
11	Characterization of diamond single crystals by means of double-crystal X-ray diffraction and positron annihilation. *Applied Physics A: Materials Science and Processing*, **1995**, 61, 331-333	2.6	6
10	Characterization of diamond single crystals by means of double-crystal X-ray diffraction and positron annihilation **1995**, 61, 331		1
9	Charge state and diffusivity of muonium in n-type GaAs. *Physical Review B*, **1994**, 50, 1999-2002	3.3	32
8	Heteroepitaxial growth of ZnO films on diamond (111) plane by magnetron sputtering. *Applied Physics Letters*, **1994**, 65, 2556-2558	3.4	77
7	Quantum diffusion of muonium in GaAs with shallow donor impurities. *Hyperfine Interactions*, **1994**, 85, 79-84	0.8	2
6	The study of native defects in as-grown GaAs by positron annihilation. *Hyperfine Interactions*, **1993**, 79, 719-723	0.8	6
5	Effect of Annealing Method on Vacancy-Type Defects in Si-Implanted GaAs Studied by a Slow Positron Beam. *Japanese Journal of Applied Physics*, **1992**, 31, 732-736	1.4	4
4	Characterization of vacancy-type defects in Se-implanted GaAs by means of a slow positron beam. *Journal of Applied Physics*, **1992**, 72, 1405-1409	2.5	3
3	Diamond wafer for SAW application		4
2	Low phase noise VCSO with diamond SAW resonators		7
1	SAW devices on diamond		27