

# Shuntaro Tsubaki

## List of Publications by Citations

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72  
papers

1,157  
citations

19  
h-index

31  
g-index

77  
ext. papers

1,372  
ext. citations

5.7  
avg, IF

4.51  
L-index

#	Paper	IF	Citations
72	Optimization of microwave-assisted extraction of carbohydrates from industrial waste of corn starch production using response surface methodology. <i>Bioresource Technology</i> , <b>2010</b> , 101, 7820-6	11	93
71	Isolation of hesperidin from peels of thinned Citrus unshiu fruits by microwave-assisted extraction. <i>Food Chemistry</i> , <b>2010</b> , 123, 542-547	8.5	82
70	Microwave-assisted hydrothermal extraction of sulfated polysaccharides from <i>Ulva</i> spp. and <i>Monostroma latissimum</i> . <i>Food Chemistry</i> , <b>2016</b> , 210, 311-6	8.5	80
69	Microwave-assisted extraction of phenolic compounds from tea residues under autohydrolytic conditions. <i>Food Chemistry</i> , <b>2010</b> , 123, 1255-1258	8.5	67
68	Microwave heating of tea residue yields polysaccharides, polyphenols, and plant biopolyester. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 11293-9	5.7	64
67	Microwave-assisted hydrothermal hydrolysis of cellobiose and effects of additions of halide salts. <i>Bioresource Technology</i> , <b>2012</b> , 123, 703-6	11	44
66	Cuticular membrane of Fuyu persimmon fruit is strengthened by triterpenoid nano-fillers. <i>PLoS ONE</i> , <b>2013</b> , 8, e75275	3.7	42
65	Microwave-assisted autohydrolysis of <i>Prunus mume</i> stone for extraction of polysaccharides and phenolic compounds. <i>Journal of Food Science</i> , <b>2010</b> , 75, C152-9	3.4	42
64	Enhancement of Fixed-bed Flow Reactions under Microwave Irradiation by Local Heating at the Vicinal Contact Points of Catalyst Particles. <i>Scientific Reports</i> , <b>2019</b> , 9, 222	4.9	33
63	Microwave-assisted hydrolysis of polysaccharides over polyoxometalate clusters. <i>Bioresource Technology</i> , <b>2013</b> , 144, 67-73	11	31
62	Improvement of microwave-assisted hydrolysis of cassava pulp and tapioca flour by addition of activated carbon. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 939-942	10.3	29
61	Hydrolysis of green-tide forming <i>Ulva</i> spp. by microwave irradiation with polyoxometalate clusters. <i>Green Chemistry</i> , <b>2014</b> , 16, 2227	10	28
60	A novel saccharification method of starch using microwave irradiation with addition of activated carbon. <i>Bioresource Technology</i> , <b>2011</b> , 102, 3985-8	11	28
59	Mechanical properties of fruit-cuticular membranes isolated from 27 cultivars of <i>Diospyros kaki</i> Thunb.. <i>Food Chemistry</i> , <b>2012</b> , 132, 2135-2139	8.5	27
58	Total fractionation of green tea residue by microwave-assisted alkaline pretreatment and enzymatic hydrolysis. <i>Bioresource Technology</i> , <b>2013</b> , 131, 485-91	11	24
57	Smelting Magnesium Metal using a Microwave Pidgeon Method. <i>Scientific Reports</i> , <b>2017</b> , 7, 46512	4.9	23
56	Growth-dependent chemical and mechanical properties of cuticular membranes from leaves of <i>Sonneratia alba</i> . <i>Plant, Cell and Environment</i> , <b>2012</b> , 35, 1201-10	8.4	22

55	Electromagnetic and Heat-Transfer Simulation of the Catalytic Dehydrogenation of Ethylbenzene under Microwave Irradiation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 7685-7692	3.9	20
54	Effects of acidic functional groups on dielectric properties of sodium alginates and carrageenans in water. <i>Carbohydrate Polymers</i> , <b>2015</b> , 115, 78-87	10.3	19
53	Functional group dependent dielectric properties of sulfated hydrocolloids extracted from green macroalgal biomass. <i>Carbohydrate Polymers</i> , <b>2014</b> , 107, 192-7	10.3	19
52	Comparative decomposition kinetics of neutral monosaccharides by microwave and induction heating treatments. <i>Carbohydrate Research</i> , <b>2013</b> , 375, 1-4	2.9	19
51	Microwave Heating for Solubilization of Polysaccharide and Polyphenol from Soybean Residue (Okara). <i>Food Science and Technology Research</i> , <b>2009</b> , 15, 307-314	0.8	18
50	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. <i>Green Chemistry</i> , <b>2020</b> , 22, 342-351	10	18
49	In situ temperature measurements of reaction spaces under microwave irradiation using photoluminescent probes. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 13173-9	3.6	17
48	Effects of ionic conduction on hydrothermal hydrolysis of corn starch and crystalline cellulose induced by microwave irradiation. <i>Carbohydrate Polymers</i> , <b>2016</b> , 137, 594-599	10.3	16
47	Compositional analysis of leaf cuticular membranes isolated from tea plants ( <i>Camellia sinensis</i> L.). <i>Food Chemistry</i> , <b>2013</b> , 138, 286-90	8.5	14
46	Kinetic analysis of microwave-enhanced cellulose dissolution in ionic solvents. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 1003-1010	3.6	14
45	Examination of species delimitation of ambiguous DNA-based <i>Ulva</i> (Ulvophyceae, Chlorophyta) clades by culturing and hybridisation. <i>Phycologia</i> , <b>2017</b> , 56, 517-532	2.7	12
44	Cassava Pulp Hydrolysis under Microwave Irradiation with Oxalic Acid Catalyst for Ethanol Production. <i>Journal of Mathematical and Fundamental Sciences</i> , <b>2014</b> , 46, 125-139	1.7	12
43	Catalytic Hydrolysis of Polysaccharides Derived from Fast-Growing Green Macroalgae. <i>ChemCatChem</i> , <b>2017</b> , 9, 2638-2641	5.2	11
42	Application of Microwave Technology for Utilization of Recalcitrant Biomass <b>2011</b> ,		11
41	Microwave-assisted hydrolysis of biomass over activated carbon supported polyoxometalates. <i>RSC Advances</i> , <b>2017</b> , 7, 12346-12350	3.7	10
40	Microwave-assisted Hydrothermal Hydrolysis of Maltose with Addition of Microwave Absorbing Agents. <i>Procedia Chemistry</i> , <b>2012</b> , 4, 288-293		9
39	Production of Bio Hydrofined Diesel, Jet Fuel, and Carbon Monoxide from Fatty Acids Using a Silicon Nanowire Array-Supported Rhodium Nanoparticle Catalyst under Microwave Conditions. <i>ACS Catalysis</i> , <b>2020</b> , 10, 2148-2156	13.1	9
38	Fourfold daily growth rate in multicellular marine alga <i>Ulva meridionalis</i> . <i>Scientific Reports</i> , <b>2020</b> , 10, 12606	4.9	9

37	Physical Insight to Microwave Special Effects: Nonequilibrium Local Heating and Acceleration of Electron Transfer. <i>Journal of the Japan Petroleum Institute</i> , <b>2018</b> , 61, 98-105	1	9
36	Remote Control of Electron Transfer Reaction by Microwave Irradiation: Kinetic Demonstration of Reduction of Bipyridine Derivatives on Surface of Nickel Particle. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 3390-3394	6.4	8
35	Enhancement of anodic current attributed to oxygen evolution on $\beta$ -FeO electrode by microwave oscillating electric field. <i>Scientific Reports</i> , <b>2016</b> , 6, 35554	4.9	7
34	Proton-Enhanced Dielectric Properties of Polyoxometalates in Water under Radio-Frequency Electromagnetic Waves. <i>Materials</i> , <b>2018</b> , 11,	3.5	7
33	Probing the temperature of supported platinum nanoparticles under microwave irradiation by in situ and operando XAFS. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	7
32	Radio frequency alternating electromagnetic field enhanced tetra-ruthenium polyoxometalate electrocatalytic water oxidation. <i>Chemical Communications</i> , <b>2019</b> , 55, 1032-1035	5.8	6
31	Acceleration of Water Electrolysis by Accumulation of Microwave Energy at a Pt Disk Electrode. <i>Chemistry Letters</i> , <b>2017</b> , 46, 1593-1596	1.7	6
30	Is Selective Heating of the Sulfonic Acid Catalyst AC-SO <sub>3</sub> H by Microwave Radiation Crucial in the Acid Hydrolysis of Cellulose to Glucose in Aqueous Media?. <i>Catalysts</i> , <b>2017</b> , 7, 231	4	6
29	Operando Raman Spectroscopy of the Microwave-Enhanced Catalytic Dehydration of 2-Propanol by WO <sub>3</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 1781-1788	3.9	6
28	Microwave-Driven Biorefinery for Utilization of Food and Agricultural Waste Biomass <b>2018</b> , 393-408		6
27	Crystalline orientation control using self-assembled TiO <sub>2</sub> nanosheet scaffold to improve CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 08MC17	1.4	5
26	Microwave Application to Efficient Annealing Process of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Crystalline Films. <i>Electrochemistry</i> , <b>2017</b> , 85, 236-240	1.2	5
25	Probing rapid carbon fixation in fast-growing seaweed <i>Ulva meridionalis</i> using stable isotope C-labelling. <i>Scientific Reports</i> , <b>2020</b> , 10, 20399	4.9	5
24	Production and Conversion of Green Macroalgae ( <i>Ulva</i> spp.) <b>2017</b> , 19-41		4
23	Hole Accumulation at the Grain Boundary Enhances Water Oxidation at $\beta$ -Fe <sub>2</sub> O <sub>3</sub> Electrodes under a Microwave Electric Field. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 7749-7759	3.8	4
22	Microwave Irradiation Process for Al-Sc Alloy Production. <i>Scientific Reports</i> , <b>2020</b> , 10, 2689	4.9	4
21	Distance-depending Photoinduced Electron Transfer at Two-dimensional Interface in Alternate Stacked Structures of Tantalate Nanosheets and Tungstate Nanosheets. <i>Chemistry Letters</i> , <b>2016</b> , 45, 1111-1113	1.7	4
20	Refinery of Biomass by Utilization of Specific Effects of Microwave Irradiation. <i>Procedia Chemistry</i> , <b>2012</b> , 4, 17-25		4

19	Drastic Microwave Heating of Percolated Pt Metal Nanoparticles Supported on Al <sub>2</sub> O <sub>3</sub> Substrate. <i>Processes</i> , <b>2020</b> , 8, 72	2.9	4
18	Microwave-Induced Biomass Fractionation <b>2016</b> , 103-126		4
17	Effect of Aspect Ratio on the Permittivity of Graphite Fiber in Microwave Heating. <i>Materials</i> , <b>2018</b> , 11,	3.5	4
16	Raman monitoring of dielectric-heating-enhanced freeze-drying under different electromagnetic wave frequencies.. <i>RSC Advances</i> , <b>2019</b> , 9, 9001-9005	3.7	3
15	A Facile Formation of Vanadium(0) by the Reduction of Vanadium Pentoxide Pelletized with Magnesium Oxide Enabled by Microwave Irradiation. <i>ChemistrySelect</i> , <b>2020</b> , 5, 2949-2953	1.8	3
14	Real-Time Facile Detection of the WO Catalyst Oxidation State under Microwaves Using a Resonance Frequency. <i>ACS Omega</i> , <b>2020</b> , 5, 31957-31962	3.9	3
13	Fractionation of plant-cuticle-based bio-oils by microwave-assisted methanolysis combined with hydrothermal pretreatment and enzymatic hydrolysis. <i>Heliyon</i> , <b>2019</b> , 5, e01887	3.6	2
12	Reversible Mechanochromic Luminescence of a Heteroatom-Free Helically Chiral Hydrocarbon. <i>Chemistry Letters</i> , <b>2018</b> , 47, 1228-1231	1.7	2
11	Microwave-Assisted Water Extraction of Carbohydrates From Unutilized Biomass <b>2017</b> , 199-219		2
10	Smelting of Scandium by Microwave Irradiation. <i>Materials</i> , <b>2017</b> , 10,	3.5	2
9	Microwave-Assisted Hydrothermal Processing of Seaweed Biomass <b>2017</b> , 443-460		2
8	Insights into the Dielectric-Heating-Enhanced Regeneration of CO <sub>2</sub> -Rich Aqueous Amine Solutions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 13593-13599	8.3	2
7	Microwave-assisted solubilization of microalgae in high-temperature ethylene glycol. <i>Biomass and Bioenergy</i> , <b>2019</b> , 130, 105360	5.3	1
6	Determining the influence of microwave-induced thermal unevenness on vanadium oxide catalyst particles. <i>Chemical Engineering Journal</i> , <b>2021</b> , 433, 133603	14.7	1
5	Controlling the Schottky Barrier at the Pt/TiO <sub>2</sub> Interface by Intercalation of a Self-Assembled Monolayer with Oriented Dipole Moments. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 13984-13989	3.8	1
4	Reduction of metal oxides using thermogravimetry under microwave irradiation. <i>AIP Advances</i> , <b>2021</b> , 11, 065207	1.5	1
3	7. Chemical reactions on the interfaces of solids under microwaves <b>2017</b> , 113-126		
2	Algal Biomass Conversion under Microwave Irradiation <b>2015</b> , 301-322		

- 1 Activation of chemical reactions on solid catalysts under microwave irradiation **2021**, 27-69