

Shuntaro Tsubaki

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.

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 | Determining the influence of microwave-induced thermal unevenness on vanadium oxide catalyst particles. <i>Chemical Engineering Journal</i> , 2021 , 433, 133603 | 14.7 | 1 |
| 71 | Controlling the Schottky Barrier at the Pt/TiO ₂ Interface by Intercalation of a Self-Assembled Monolayer with Oriented Dipole Moments. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13984-13989 | 3.8 | 1 |
| 70 | Reduction of metal oxides using thermogravimetry under microwave irradiation. <i>AIP Advances</i> , 2021 , 11, 065207 | 1.5 | 1 |
| 69 | Activation of chemical reactions on solid catalysts under microwave irradiation 2021 , 27-69 | | |
| 68 | Hole Accumulation at the Grain Boundary Enhances Water Oxidation at Fe ₂ O ₃ Electrodes under a Microwave Electric Field. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7749-7759 | 3.8 | 4 |
| 67 | A Facile Formation of Vanadium(0) by the Reduction of Vanadium Pentoxide Pelletized with Magnesium Oxide Enabled by Microwave Irradiation. <i>ChemistrySelect</i> , 2020 , 5, 2949-2953 | 1.8 | 3 |
| 66 | Microwave Irradiation Process for Al-Sc Alloy Production. <i>Scientific Reports</i> , 2020 , 10, 2689 | 4.9 | 4 |
| 65 | Drastic Microwave Heating of Percolated Pt Metal Nanoparticles Supported on Al ₂ O ₃ Substrate. <i>Processes</i> , 2020 , 8, 72 | 2.9 | 4 |
| 64 | Kinetic analysis of microwave-enhanced cellulose dissolution in ionic solvents. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 1003-1010 | 3.6 | 14 |
| 63 | Operando Raman Spectroscopy of the Microwave-Enhanced Catalytic Dehydration of 2-Propanol by WO ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 1781-1788 | 3.9 | 6 |
| 62 | 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> , 2020 , 10, 2148-2156 | 13.1 | 9 |
| 61 | 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> , 2020 , 22, 342-351 | 10 | 18 |
| 60 | Probing the temperature of supported platinum nanoparticles under microwave irradiation by in situ and operando XAFS. <i>Communications Chemistry</i> , 2020 , 3, | 6.3 | 7 |
| 59 | Real-Time Facile Detection of the WO Catalyst Oxidation State under Microwaves Using a Resonance Frequency. <i>ACS Omega</i> , 2020 , 5, 31957-31962 | 3.9 | 3 |
| 58 | Insights into the Dielectric-Heating-Enhanced Regeneration of CO ₂ -Rich Aqueous Amine Solutions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13593-13599 | 8.3 | 2 |
| 57 | Fourfold daily growth rate in multicellular marine alga <i>Ulva meridionalis</i> . <i>Scientific Reports</i> , 2020 , 10, 12606 | 4.9 | 9 |
| 56 | Probing rapid carbon fixation in fast-growing seaweed <i>Ulva meridionalis</i> using stable isotope C-labelling. <i>Scientific Reports</i> , 2020 , 10, 20399 | 4.9 | 5 |

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| 55 | Microwave-assisted solubilization of microalgae in high-temperature ethylene glycol. <i>Biomass and Bioenergy</i> , 2019 , 130, 105360 | 5.3 | 1 |
| 54 | Radio frequency alternating electromagnetic field enhanced tetraruthenium polyoxometalate electrocatalytic water oxidation. <i>Chemical Communications</i> , 2019 , 55, 1032-1035 | 5.8 | 6 |
| 53 | Enhancement of Fixed-bed Flow Reactions under Microwave Irradiation by Local Heating at the Vicinal Contact Points of Catalyst Particles. <i>Scientific Reports</i> , 2019 , 9, 222 | 4.9 | 33 |
| 52 | Fractionation of plant-cuticle-based bio-oils by microwave-assisted methanolysis combined with hydrothermal pretreatment and enzymatic hydrolysis. <i>Heliyon</i> , 2019 , 5, e01887 | 3.6 | 2 |
| 51 | 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> , 2019 , 10, 3390-3394 | 6.4 | 8 |
| 50 | Raman monitoring of dielectric-heating-enhanced freeze-drying under different electromagnetic wave frequencies.. <i>RSC Advances</i> , 2019 , 9, 9001-9005 | 3.7 | 3 |
| 49 | Proton-Enhanced Dielectric Properties of Polyoxometalates in Water under Radio-Frequency Electromagnetic Waves. <i>Materials</i> , 2018 , 11, | 3.5 | 7 |
| 48 | Reversible Mechanochromic Luminescence of a Heteroatom-Free Helically Chiral Hydrocarbon. <i>Chemistry Letters</i> , 2018 , 47, 1228-1231 | 1.7 | 2 |
| 47 | Physical Insight to Microwave Special Effects: Nonequilibrium Local Heating and Acceleration of Electron Transfer. <i>Journal of the Japan Petroleum Institute</i> , 2018 , 61, 98-105 | 1 | 9 |
| 46 | Effect of Aspect Ratio on the Permittivity of Graphite Fiber in Microwave Heating. <i>Materials</i> , 2018 , 11, | 3.5 | 4 |
| 45 | Microwave-Driven Biorefinery for Utilization of Food and Agricultural Waste Biomass 2018 , 393-408 | | 6 |
| 44 | Microwave-assisted hydrolysis of biomass over activated carbon supported polyoxometalates. <i>RSC Advances</i> , 2017 , 7, 12346-12350 | 3.7 | 10 |
| 43 | Catalytic Hydrolysis of Polysaccharides Derived from Fast-Growing Green Macroalgae. <i>ChemCatChem</i> , 2017 , 9, 2638-2641 | 5.2 | 11 |
| 42 | Smelting Magnesium Metal using a Microwave Pidgeon Method. <i>Scientific Reports</i> , 2017 , 7, 46512 | 4.9 | 23 |
| 41 | Examination of species delimitation of ambiguous DNA-based Ulva (Ulvothyxales, Chlorophyta) clades by culturing and hybridisation. <i>Phycologia</i> , 2017 , 56, 517-532 | 2.7 | 12 |
| 40 | Production and Conversion of Green Macroalgae (Ulva spp.) 2017 , 19-41 | | 4 |
| 39 | Acceleration of Water Electrolysis by Accumulation of Microwave Energy at a Pt Disk Electrode. <i>Chemistry Letters</i> , 2017 , 46, 1593-1596 | 1.7 | 6 |
| 38 | Crystalline orientation control using self-assembled TiO ₂ nanosheet scaffold to improve CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 08MC17 | 1.4 | 5 |

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| 37 | Electromagnetic and Heat-Transfer Simulation of the Catalytic Dehydrogenation of Ethylbenzene under Microwave Irradiation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7685-7692 | 3.9 | 20 |
| 36 | Microwave-Assisted Water Extraction of Carbohydrates From Unutilized Biomass 2017 , 199-219 | | 2 |
| 35 | Microwave Application to Efficient Annealing Process of CH ₃ NH ₃ PbI ₃ Perovskite Crystalline Films. <i>Electrochemistry</i> , 2017 , 85, 236-240 | 1.2 | 5 |
| 34 | 7. Chemical reactions on the interfaces of solids under microwaves 2017 , 113-126 | | |
| 33 | Smelting of Scandium by Microwave Irradiation. <i>Materials</i> , 2017 , 10, | 3.5 | 2 |
| 32 | Is Selective Heating of the Sulfonic Acid Catalyst AC-SO ₃ H by Microwave Radiation Crucial in the Acid Hydrolysis of Cellulose to Glucose in Aqueous Media?. <i>Catalysts</i> , 2017 , 7, 231 | 4 | 6 |
| 31 | Microwave-Assisted Hydrothermal Processing of Seaweed Biomass 2017 , 443-460 | | 2 |
| 30 | Distance-depending Photoinduced Electron Transfer at Two-dimensional Interface in Alternate Stacked Structures of Tantalate Nanosheets and Tungstate Nanosheets. <i>Chemistry Letters</i> , 2016 , 45, 1111-1113 | 1.7 | 4 |
| 29 | Enhancement of anodic current attributed to oxygen evolution on FeO electrode by microwave oscillating electric field. <i>Scientific Reports</i> , 2016 , 6, 35554 | 4.9 | 7 |
| 28 | Microwave-assisted hydrothermal extraction of sulfated polysaccharides from <i>Ulva</i> spp. and <i>Monostroma latissimum</i> . <i>Food Chemistry</i> , 2016 , 210, 311-6 | 8.5 | 80 |
| 27 | Effects of ionic conduction on hydrothermal hydrolysis of corn starch and crystalline cellulose induced by microwave irradiation. <i>Carbohydrate Polymers</i> , 2016 , 137, 594-599 | 10.3 | 16 |
| 26 | Microwave-Induced Biomass Fractionation 2016 , 103-126 | | 4 |
| 25 | In situ temperature measurements of reaction spaces under microwave irradiation using photoluminescent probes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13173-9 | 3.6 | 17 |
| 24 | Effects of acidic functional groups on dielectric properties of sodium alginates and carrageenans in water. <i>Carbohydrate Polymers</i> , 2015 , 115, 78-87 | 10.3 | 19 |
| 23 | Algal Biomass Conversion under Microwave Irradiation 2015 , 301-322 | | |
| 22 | Hydrolysis of green-tide forming <i>Ulva</i> spp. by microwave irradiation with polyoxometalate clusters. <i>Green Chemistry</i> , 2014 , 16, 2227 | 10 | 28 |
| 21 | Functional group dependent dielectric properties of sulfated hydrocolloids extracted from green macroalgal biomass. <i>Carbohydrate Polymers</i> , 2014 , 107, 192-7 | 10.3 | 19 |
| 20 | Cassava Pulp Hydrolysis under Microwave Irradiation with Oxalic Acid Catalyst for Ethanol Production. <i>Journal of Mathematical and Fundamental Sciences</i> , 2014 , 46, 125-139 | 1.7 | 12 |

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|----|--|------|----|
| 19 | Microwave-assisted hydrolysis of polysaccharides over polyoxometalate clusters. <i>Bioresource Technology</i> , 2013 , 144, 67-73 | 11 | 31 |
| 18 | Compositional analysis of leaf cuticular membranes isolated from tea plants (<i>Camellia sinensis</i> L.). <i>Food Chemistry</i> , 2013 , 138, 286-90 | 8.5 | 14 |
| 17 | Comparative decomposition kinetics of neutral monosaccharides by microwave and induction heating treatments. <i>Carbohydrate Research</i> , 2013 , 375, 1-4 | 2.9 | 19 |
| 16 | Total fractionation of green tea residue by microwave-assisted alkaline pretreatment and enzymatic hydrolysis. <i>Bioresource Technology</i> , 2013 , 131, 485-91 | 11 | 24 |
| 15 | Cuticular membrane of Fuyu persimmon fruit is strengthened by triterpenoid nano-fillers. <i>PLoS ONE</i> , 2013 , 8, e75275 | 3.7 | 42 |
| 14 | Microwave-assisted hydrothermal hydrolysis of cellobiose and effects of additions of halide salts. <i>Bioresource Technology</i> , 2012 , 123, 703-6 | 11 | 44 |
| 13 | Refinery of Biomass by Utilization of Specific Effects of Microwave Irradiation. <i>Procedia Chemistry</i> , 2012 , 4, 17-25 | | 4 |
| 12 | Microwave-assisted Hydrothermal Hydrolysis of Maltose with Addition of Microwave Absorbing Agents. <i>Procedia Chemistry</i> , 2012 , 4, 288-293 | | 9 |
| 11 | Growth-dependent chemical and mechanical properties of cuticular membranes from leaves of <i>Sonneratia alba</i> . <i>Plant, Cell and Environment</i> , 2012 , 35, 1201-10 | 8.4 | 22 |
| 10 | Improvement of microwave-assisted hydrolysis of cassava pulp and tapioca flour by addition of activated carbon. <i>Carbohydrate Polymers</i> , 2012 , 87, 939-942 | 10.3 | 29 |
| 9 | Mechanical properties of fruit-cuticular membranes isolated from 27 cultivars of <i>Diospyros kaki</i> Thunb.. <i>Food Chemistry</i> , 2012 , 132, 2135-2139 | 8.5 | 27 |
| 8 | Application of Microwave Technology for Utilization of Recalcitrant Biomass 2011 , | | 11 |
| 7 | A novel saccharification method of starch using microwave irradiation with addition of activated carbon. <i>Bioresource Technology</i> , 2011 , 102, 3985-8 | 11 | 28 |
| 6 | Microwave-assisted autohydrolysis of <i>Prunus mume</i> stone for extraction of polysaccharides and phenolic compounds. <i>Journal of Food Science</i> , 2010 , 75, C152-9 | 3.4 | 42 |
| 5 | Isolation of hesperidin from peels of thinned <i>Citrus unshiu</i> fruits by microwave-assisted extraction. <i>Food Chemistry</i> , 2010 , 123, 542-547 | 8.5 | 82 |
| 4 | Microwave-assisted extraction of phenolic compounds from tea residues under autohydrolytic conditions. <i>Food Chemistry</i> , 2010 , 123, 1255-1258 | 8.5 | 67 |
| 3 | Optimization of microwave-assisted extraction of carbohydrates from industrial waste of corn starch production using response surface methodology. <i>Bioresource Technology</i> , 2010 , 101, 7820-6 | 11 | 93 |
| 2 | Microwave Heating for Solubilization of Polysaccharide and Polyphenol from Soybean Residue (Okara). <i>Food Science and Technology Research</i> , 2009 , 15, 307-314 | 0.8 | 18 |

- 1 Microwave heating of tea residue yields polysaccharides, polyphenols, and plant biopolyester.
Journal of Agricultural and Food Chemistry, **2008**, 56, 11293-9

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