

# Genki Saito

## List of Publications by Year in descending order

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55  
papers

1,377  
citations

361413

20  
h-index

345221

36  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1420  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | In-situ observation of abnormal grain growth in a low-alloyed carbon steel using SEM-EBSD. <i>Materialia</i> , 2021, 15, 100985.   | 2.7  | 3         |
| 2  | Effects of Cooling Rate after Hot Forging on Precipitation of Fine Particles during Subsequent Normalizing and Austenite Grain Growth during Carburization of Al- and Nb-microalloyed Case-hardening Steel. <i>ISIJ International</i> , 2021, 61, 1964-1970. | 1.4  | 4         |
| 3  | Sr-Doped Ca <sub>2</sub> AlMnO <sub>5</sub> for Energy-Saving Oxygen Separation Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9317-9326.  | 6.7  | 7         |
| 4  | Precipitation Behavior of Combined Precipitates in Carbon Steels. <i>Materia Japan</i> , 2021, 60, 486-491.  | 0.1  | 0         |
| 5  | Faster Generation of Nanoporous Hematite Ore through Dehydration of Goethite under Vacuum Conditions. <i>ISIJ International</i> , 2021, 61, 493-497.   | 1.4  | 2         |
| 6  | Effects of Concentrations of Micro-alloying Elements and Hot-forging Temperature on Austenite Grain Structure Formed during Carburization of Case-hardening Steel. <i>ISIJ International</i> , 2020, 60, 2549-2557.  | 1.4  | 7         |
| 7  | Austenite memory during reverse transformation of steels at different heating rates. <i>Materialia</i> , 2019, 7, 100409.  | 2.7  | 3         |
| 8  | Synthesis of AlN particles via direct nitridation in a drop tube furnace. <i>Journal of the Ceramic Society of Japan</i> , 2019, 127, 810-817.   | 1.1  | 1         |
| 9  | Effects of Fine Precipitates on Austenite Grain Refinement of Micro-alloyed Steel during Cyclic Heat Treatment. <i>ISIJ International</i> , 2019, 59, 2098-2104.   | 1.4  | 13        |
| 10 | Crystalline Evaluation of Size-Controlled Silicon and Silicon Oxide Nanoparticles Produced by Solution Plasma Discharge. <i>Materials Transactions</i> , 2019, 60, 688-692.  | 1.2  | 3         |
| 11 | Combustion synthesis of AlN doped with carbon and oxygen. <i>Journal of the American Ceramic Society</i> , 2019, 102, 524-532.   | 3.8  | 7         |
| 12 | Sr substitution effects on atomic and local electronic structure of Ca <sub>2</sub> AlMnO <sub>5</sub> . <i>Surface and Interface Analysis</i> , 2019, 51, 65-69.  | 1.8  | 4         |
| 13 | Solution Combustion Synthesis of Functional Powders. <i>Journal of the Society of Powder Technology, Japan</i> , 2019, 56, 267-271.  | 0.1  | 0         |
| 14 | Formation of Different Si <sub>3</sub> N <sub>4</sub> Nanostructures by Salt-Assisted Nitridation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 11852-11861.  | 8.0  | 18        |
| 15 | Combustion synthesis of YAG:Ce phosphors via the thermite reaction of aluminum. <i>Journal of Rare Earths</i> , 2018, 36, 248-256.   | 4.8  | 14        |
| 16 | Development of a microencapsulated Al-Si phase change material with high-temperature thermal stability and durability over 3000 cycles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18143-18153.  | 10.3 | 63        |
| 17 | Solution-Plasma-Mediated Synthesis of Si Nanoparticles for Anode Material of Lithium-Ion Batteries. <i>Nanomaterials</i> , 2018, 8, 286.   | 4.1  | 14        |
| 18 | Microencapsulation of eutectic and hyper-eutectic Al-Si alloy as phase change materials for high-temperature thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2018, 187, 255-262.   | 6.2  | 45        |

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|----|---|------|-----------|
| 19 | Effects of Al particle size and nitrogen pressure on AlN combustion synthesis. <i>Ceramics International</i> , 2017, 43, 9872-9876.   | 4.8  | 17        |
| 20 | Three-dimensional analysis of Eu dopant atoms in Ca- $\hat{\Gamma}$ -SiAlON via through-focus HAADF-STEM imaging. <i>Ultramicroscopy</i> , 2017, 175, 97-104.   | 1.9  | 13        |
| 21 | Microencapsulated phase change materials with high heat capacity and high cyclic durability for high-temperature thermal energy storage and transportation. <i>Applied Energy</i> , 2017, 188, 9-18.  | 10.1 | 148       |
| 22 | Atomic and Local Electronic Structures of Ca <sub>2</sub> AlMnO <sub>5+<math>\hat{\Gamma}</math></sub> as an Oxygen Storage Material. <i>Chemistry of Materials</i> , 2017, 29, 648-655.  | 6.7  | 12        |
| 23 | Enhanced cycling performance of surface-doped LiMn <sub>2</sub> O <sub>4</sub> modified by a Li <sub>2</sub> CuO <sub>2</sub> -Li <sub>2</sub> NiO <sub>2</sub> solid solution for rechargeable lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 224, 71-79. | 5.2  | 26        |
| 24 | Combustion synthesis of Ca- $\hat{\Gamma}$ -SiAlON:Eu <sup>2+</sup> phosphors with different Ca concentrations and diluent ratios. <i>Ceramics International</i> , 2017, 43, 12396-12401.   | 4.8  | 7         |
| 25 | Estimating the Spatial Distribution of Ca Dopants in $\hat{\Gamma}$ -SiAlON by Statistical Analysis of HAADF-STEM Image. <i>Materials Transactions</i> , 2017, 58, 1341-1345.   | 1.2  | 0         |
| 26 | Optimization of the Dehydration Temperature of Goethite to Control Pore Morphology. <i>ISIJ International</i> , 2016, 56, 1598-1605.  | 1.4  | 15        |
| 27 | Solution combustion synthesis of porous Sn- $\hat{\Gamma}$ -C composite as anode material for lithium ion batteries. <i>Advanced Powder Technology</i> , 2016, 27, 1730-1737.   | 4.1  | 10        |
| 28 | Improved electrochemical performance of LiMn <sub>2</sub> O <sub>4</sub> surface-modified by a Mn <sup>4+</sup> -rich phase for rechargeable lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 209, 225-234.  | 5.2  | 46        |
| 29 | Salt-assisted combustion synthesis of Ca- $\hat{\Gamma}$ -SiAlON:Eu <sup>2+</sup> phosphors. <i>Journal of Alloys and Compounds</i> , 2016, 681, 22-27.   | 5.5  | 11        |
| 30 | Limonitic Laterite Ore as a Catalyst for the Dry Reforming of Methane. <i>Energy &amp; Fuels</i> , 2016, 30, 8457-8462.   | 5.1  | 8         |
| 31 | Twin formation in hematite during dehydration of goethite. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 749-757.  | 0.8  | 8         |
| 32 | Estimating the dopant distribution in Ca-doped $\hat{\Gamma}$ -SiAlON: statistical HAADF-STEM analysis and large-scale atomic modeling. <i>Microscopy (Oxford, England)</i> , 2016, 65, 400-406.  | 1.5  | 5         |
| 33 | MnO nanocrystals incorporated in a N-containing carbon matrix for Li ion battery anodes. <i>RSC Advances</i> , 2016, 6, 30445-30453.  | 3.6  | 12        |
| 34 | Nanomaterial Synthesis Using Plasma Generation in Liquid. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-21.   | 2.7  | 137       |
| 35 | A facile solution combustion synthesis of nanosized amorphous iron oxide incorporated in a carbon matrix for use as a high-performance lithium ion battery anode material. <i>Journal of Alloys and Compounds</i> , 2015, 633, 424-429.                               | 5.5  | 21        |
| 36 | Glycine/sucrose-based solution combustion synthesis of high-purity LiMn <sub>2</sub> O <sub>4</sub> with improved yield as cathode materials for lithium-ion batteries. <i>Advanced Powder Technology</i> , 2015, 26, 665-671.  | 4.1  | 34        |

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|----|---|------|-----------|
| 37 | Microencapsulation of Metal-based Phase Change Material for High-temperature Thermal Energy Storage. <i>Scientific Reports</i> , 2015, 5, 9117.   | 3.3  | 154       |
| 38 | Generation of solution plasma over a large electrode surface area. <i>Journal of Applied Physics</i> , 2015, 118, .   | 2.5  | 21        |
| 39 | Improved electrochemical properties of $\text{LiMn}_2\text{O}_4$ with the Bi and La co-doping for lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 73315-73322.  | 3.6  | 24        |
| 40 | Solution plasma synthesis of Si nanoparticles. <i>Nanotechnology</i> , 2015, 26, 235602.  | 2.6  | 18        |
| 41 | Glycine-nitrate-based solution-combustion synthesis of $\text{SrTiO}_3$ . <i>Journal of Alloys and Compounds</i> , 2015, 652, 496-502.  | 5.5  | 23        |
| 42 | Synthesis of nonstoichiometric titanium oxide nanoparticles using discharge in HCl solution. <i>Journal of Applied Physics</i> , 2014, 115, .   | 2.5  | 20        |
| 43 | Excitation temperature of a solution plasma during nanoparticle synthesis. <i>Journal of Applied Physics</i> , 2014, 116, 083301.   | 2.5  | 21        |
| 44 | High-speed camera observation of solution plasma during nanoparticles formation. <i>Applied Physics Letters</i> , 2014, 104, 083104.  | 3.3  | 13        |
| 45 | Solution combustion synthesis of $\text{LiMn}_2\text{O}_4$ fine powders for lithium ion batteries. <i>Advanced Powder Technology</i> , 2014, 25, 342-347.   | 4.1  | 49        |
| 46 | Surfactant-assisted synthesis of Sn nanoparticles via solution plasma technique. <i>Advanced Powder Technology</i> , 2014, 25, 728-732.   | 4.1  | 23        |
| 47 | Porous Ore Structure and Deposited Carbon Type during Integrated Pyrolysis-Tar Decomposition. <i>Energy &amp; Fuels</i> , 2014, 28, 2129-2134.  | 5.1  | 25        |
| 48 | Solution plasma synthesis of bimetallic nanoparticles. <i>Nanotechnology</i> , 2014, 25, 135603.  | 2.6  | 31        |
| 49 | A New Route to Synthesize $\text{SiAlON:Eu}^{2+}$ Phosphors for White Light-Emitting Diodes. <i>Applied Physics Express</i> , 2013, 6, 042105.  | 2.4  | 20        |
| 50 | A new $\text{CaCO}_3$ -template method to synthesize nanoporous manganese oxide hollow structures and their transformation to high-performance $\text{LiMn}_2\text{O}_4$ cathodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7077. | 10.3 | 58        |
| 51 | Surface morphology of a glow discharge electrode in a solution. <i>Journal of Applied Physics</i> , 2012, 112, .  | 2.5  | 12        |
| 52 | Influence of Solution Temperature and Surfactants on Morphologies of Tin Oxide Produced Using a Solution Plasma Technique. <i>Crystal Growth and Design</i> , 2012, 12, 2455-2459.  | 3.0  | 25        |
| 53 | Ripple formation on a nickel electrode during a glow discharge in a solution. <i>Applied Physics Letters</i> , 2012, 100, 181601.   | 3.3  | 10        |
| 54 | Synthesis of copper/copper oxide nanoparticles by solution plasma. <i>Journal of Applied Physics</i> , 2011, 110, .   | 2.5  | 71        |

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| 55 | Size-Controlled Ni Nanoparticles Formation by Solution Glow Discharge. Journal of the Physical Society of Japan, 2010, 79, 083501. | 1.6 | 21        |