# Shusuke Kasamatsu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4487434/publications.pdf

Version: 2024-02-01

| 25 | 457 | 1040056 | 752698 |
|---|---|---|---|
| papers | citations | 9 | 20 |
| | | h-index | g-index |

| 26 | 26 | 26 | 843 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Drastic Reduction of the Solid Electrolyteâ€“Electrode Interface Resistance via Annealing in Battery Form. ACS Applied Materials & Interfaces, 2022, 14, 2703-2710. | 8.0 | 9 |
| 2 | (Digital Presentation) Tuning Oxygen Reduction on Monoclinic and Tetragonal Zirconia Surfaces Using Oxygen Vacancy and Nitrogen Doping: A Density-Functional Study. ECS Meeting Abstracts, 2022, MA2022-01, 1517-1517. | 0.0 | 1 |
| 3 | Monte Carlo Sampling of Configuration Disorder in Crystalline Materials. The Brain & Neural Networks, 2021, 28, 12-39. | 0.1 | 0 |
| 4 | A live imaging system to analyze spatiotemporal dynamics of RNA polymerase II modification in Arabidopsis thaliana. Communications Biology, 2021, 4, 580. | 4.4 | 5 |
| 5 | Theoretical study on proton diffusivity in Y-doped BaZrO<sub>3</sub> with realistic dopant configurations. Physical Chemistry Chemical Physics, 2021, 23, 5908-5918. | 2.8 | 6 |
| 6 | Dopant arrangements in Y-doped BaZrO3 under processing conditions and their impact on proton conduction: a large-scale first-principles thermodynamics study. Journal of Materials Chemistry A, 2020, 8, 12674-12686. | 10.3 | 25 |
| 7 | First-principles study of Li-ion distribution at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î³</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mi>Li</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> /metal interfaces. Physical Review Materials, 2020, 4, . | 2.4 | 8 |
| 8 | Scaling Relation of Oxygen Reduction Reaction Intermediates at Defective TiO<sub>2</sub> Surfaces. Journal of Physical Chemistry C, 2019, 123, 19486-19492. | 3.1 | 20 |
| 9 | Direct coupling of first-principles calculations with replica exchange Monte Carlo sampling of ion disorder in solids. Journal of Physics Condensed Matter, 2019, 31, 085901. | 1.8 | 7 |
| 10 | First-principles investigation of polarization and ion conduction mechanisms in hydroxyapatite. Physical Chemistry Chemical Physics, 2018, 20, 8744-8752. | 2.8 | 20 |
| 11 | Hydrogen adsorption on Pt(111) revisited from random phase approximation. Journal of Chemical Physics, 2018, 149, 164702. | 3.0 | 24 |
| 12 | Ab-Initio Investigation of Polarization and Ion Conduction Mechanisms in the Bone Mineral and Electret Material Hydroxyapatite. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |
| 13 | Experimental realization of two-dimensional Dirac nodal line fermions in monolayer Cu2Si. Nature Communications, 2017, 8, 1007. | 12.8 | 219 |
| 14 | First-principles description of van der Waals bonded spin-polarized systems using the vdW-DF+ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>U</mml:mi></mml:math> method: Application to solid oxygen at low pressure. Physical Review B, 2017, 95, . | 3.2 | 6 |
| 15 | Electric field response in bilayer graphene: Ab initio investigation. Applied Physics Express, 2016, 9, 115104. | 2.4 | 2 |
| 16 | Emergence of Negative Capacitance in Multidomain Ferroelectricâ€“Paraelectric Nanocapacitors at Finite Bias. Advanced Materials, 2016, 28, 335-340. | 21.0 | 30 |
| 17 | Configuration interaction with antisymmetrized geminal powers. Physical Review A, 2015, 91, . | 2.5 | 8 |
| 18 | First-principles calculation of charged capacitors under open-circuit conditions using the orbital-separation approach. Physical Review B, 2015, 92, . | 3.2 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | MateriAppsÂâ€"Âa Portal Site of Materials Science Simulation. , 2015, , . | | 0 |
| 20 | Parallel-sheets model analysis of space charge layer formation at metal/ionic conductor interfaces. Solid State Ionics, 2012, 226, 62-70. | 2.7 | 9 |
| 21 | Theoretical analysis of space charge layer formation at metal/ionic conductor interfaces. Solid State Ionics, 2011, 183, 20-25. | 2.7 | 28 |
| 22 | Orbital-separation approach for consideration of finite electric bias within density-functional total-energy formalism. Physical Review B, 2011, 84, . | 3.2 | 11 |
| 23 | First Principles Study of Oxygen Vacancies Near Nickel/Zirconia Interface. E-Journal of Surface Science and Nanotechnology, 2010, 8, 93-100. | 0.4 | 6 |
| 24 | First Principles Study on Electronic Structures of Ni/H/ZrO<sub>2</sub> Triple Phase Boundary. ECS Transactions, 2009, 16, 265-272. | 0.5 | 0 |
| 25 | Comparative Study of Charged and Neutral Oxygen Vacancies in Cubic Zirconia from First Principles. Applied Physics Express, 0, 2, 061402. | 2.4 | 11 |