# Norio Kitadai

List of Publications by Year
in descending order



| 31 | 1,183 | 430874 | 434195 |
|---|---|---|---|
| papers | citations | 18 h-index | 31 g-index |

| 39 | 39 | 39 | 1338 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Origins of building blocks of life: A review. Geoscience Frontiers, 2018, 9, 1117-1153. | 8.4 | 292 |
| 2 | ATR-IR spectroscopic study of L-lysine adsorption on amorphous silica. Journal of Colloid and Interface Science, 2009, 329, 31-37. | 9.4 | 87 |
| 3 | Effects of Ions on the OH Stretching Band of Water as Revealed by ATR-IR Spectroscopy. Journal of Solution Chemistry, 2014, 43, 1055-1077. | 1.2 | 76 |
| 4 | In situ ATR-IR investigation of L-lysine adsorption on montmorillonite. Journal of Colloid and Interface Science, 2009, 338, 395-401. | 9.4 | 69 |
| 5 | Metals likely promoted protometabolism in early ocean alkaline hydrothermal systems. Science Advances, 2019, 5, eaav7848. | 10.3 | 68 |
| 6 | Effects of pH and temperature on dimerization rate of glycine: Evaluation of favorable environmental conditions for chemical evolution of life. Geochimica Et Cosmochimica Acta, 2010, 74, 6841-6851. | 3.9 | 61 |
| 7 | Surface complexation modeling for sulfate adsorption on ferrihydrite consistent with in situ infrared spectroscopic observations. Applied Geochemistry, 2013, 36, 92-103. | 3.0 | 50 |
| 8 | Nature of Hydrogen Bonding of Water Molecules in Aqueous Solutions of Glycerol by Attenuated Total Reflection (ATR) Infrared Spectroscopy. Applied Spectroscopy, 2011, 65, 436-441. | 2.2 | 49 |
| 9 | Geoelectrochemical CO production: Implications for the autotrophic origin of life. Science Advances, 2018, 4, eaao7265. | 10.3 | 41 |
| 10 | Glycine Polymerization on Oxide Minerals. Origins of Life and Evolution of Biospheres, 2017, 47, 123-143. | 1.9 | 36 |
| 11 | Thermodynamic Prediction of Glycine Polymerization as a Function of Temperature and pH Consistent with Experimentally Obtained Results. Journal of Molecular Evolution, 2014, 78, 171-187. | 1.8 | 35 |
| 12 | Chemical Diversity of Metal Sulfide Minerals and Its Implications for the Origin of Life. Life, 2018, 8, 46. | 2.4 | 35 |
| 13 | Polymerization of Building Blocks of Life on Europa and Other Icy Moons. Astrobiology, 2015, 15, 430-441. | 3.0 | 26 |
| 14 | In situ FTIR study of CO<sub>2</sub> reduction on inorganic analogues of carbon monoxide dehydrogenase. Chemical Communications, 2021, 57, 3267-3270. | 4.1 | 26 |
| 15 | Thioester synthesis through geoelectrochemical CO2 fixation on Ni sulfides. Communications Chemistry, 2021, 4, . | 4.5 | 24 |
| 16 | Hydrationâ€“dehydration interactions between glycine and anhydrous salts: Implications for a chemical evolution of life. Geochimica Et Cosmochimica Acta, 2011, 75, 6285-6299. | 3.9 | 23 |
| 17 | Origin of the Reductive Tricarboxylic Acid (rTCA) Cycle-Type CO2 Fixation: A Perspective. Life, 2017, 7, 39. | 2.4 | 23 |
| 18 | Energetics of Amino Acid Synthesis in Alkaline Hydrothermal Environments. Origins of Life and Evolution of Biospheres, 2015, 45, 377-409. | 1.9 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Dissolved Divalent Metal and pH Effects on Amino Acid Polymerization: A Thermodynamic Evaluation. Origins of Life and Evolution of Biospheres, 2017, 47, 13-37. | 1.9 | 17 |
| 20 | Geochemistry and the Origin of Life: From Extraterrestrial Processes, Chemical Evolution on Earth, Fossilized Lifeâ€™s Records, to Natures of the Extant Life. Life, 2018, 8, 39. | 2.4 | 17 |
| 21 | A comprehensive predictive model for sulfate adsorption on oxide minerals. Geochimica Et Cosmochimica Acta, 2018, 238, 150-168. | 3.9 | 15 |
| 22 | Predicting Thermodynamic Behaviors of Non-Protein Amino Acids as a Function of Temperature and pH. Origins of Life and Evolution of Biospheres, 2016, 46, 3-18. | 1.9 | 12 |
| 23 | Amorphous Silica-Promoted Lysine Dimerization: a Thermodynamic Prediction. Origins of Life and Evolution of Biospheres, 2018, 48, 23-34. | 1.9 | 12 |
| 24 | Thermodynamic Impact of Mineral Surfaces on Amino Acid Polymerization: Aspartate Dimerization on Goethite. Astrobiology, 2019, 19, 1363-1376. | 3.0 | 11 |
| 25 | Distribution and mineralogy of radioactive Cs in reservoir sediment contaminated by the Fukushima nuclear accident. Journal of Mineralogical and Petrological Sciences, 2013, 109, 23-27. | 0.9 | 9 |
| 26 | Multi-Regression Analysis of CO<sub>2</sub> Electroreduction Activities on Metal Sulfides. Journal of Physical Chemistry C, 2022, 126, 2772-2779. | 3.1 | 9 |
| 27 | Temperature dependence of molecular structure of dissolved glycine as revealed by ATR-IR spectroscopy. Journal of Molecular Structure, 2010, 981, 179-186. | 3.6 | 7 |
| 28 | A Principled Approach to the Origin Problem. Origins of Life and Evolution of Biospheres, 2015, 45, 327-338. | 1.9 | 7 |
| 29 | Electrochemically induced metal- vs. ligand-based redox changes in mackinawite: identification of a Fe<sup>3+</sup>- and polysulfide-containing intermediate. Dalton Transactions, 2021, 50, 11763-11774. | 3.3 | 6 |
| 30 | Thermodynamic Impact of Mineral Surfaces on Amino Acid Polymerization: Aspartate Dimerization on Two-Line Ferrihydrite, Anatase, and Î³-Alumina. Minerals (Basel, Switzerland), 2021, 11, 234. | 2.0 | 4 |
| 31 | Polysulfide-assisted urea synthesis from carbon monoxide and ammonia in water. , 0, 4, e6. | | 2 |