

Sergio E Ruiz-Hernandez

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

178
citations

1162889

8
h-index

1199470

12
g-index

12
all docs

12
docs citations

12
times ranked

295
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Thermochemistry of strontium incorporation in aragonite from atomistic simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1320-1328. | 1.6 | 34 |
| 2 | The effect of water on the binding of glycosaminoglycan saccharides to hydroxyapatite surfaces: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22377-22388. | 1.3 | 26 |
| 3 | Density functional theory and interatomic potential study of structural, mechanical and surface properties of calcium oxalate materials. <i>RSC Advances</i> , 2012, 2, 4664. | 1.7 | 22 |
| 4 | Structures and properties of phosphate-based bioactive glasses from computer simulation: a review. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5297-5306. | 2.9 | 19 |
| 5 | Cobalt incorporation in calcite: Thermochemistry of (Ca,Co)CO ₃ solid solutions from density functional theory simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 205-216. | 1.6 | 18 |
| 6 | Reconsidering Calcium Dehydration as the Rate-Determining Step in Calcium Mineral Growth. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26895-26903. | 1.5 | 14 |
| 7 | Controlling CaCO ₃ Particle Size with {Ca ²⁺ }:{CO ₃ ²⁻ } Ratios in Aqueous Environments. <i>Crystal Growth and Design</i> , 2021, 21, 1576-1590. | 1.4 | 12 |
| 8 | Mg/Ca Partitioning Between Aqueous Solution and Aragonite Mineral: A Molecular Dynamics Study. <i>Chemistry - A European Journal</i> , 2012, 18, 9828-9833. | 1.7 | 10 |
| 9 | Effect of Chondroitin 4-Sulfate on the Growth and Morphology of Calcium Oxalate Monohydrate: A Molecular Dynamics Study. <i>Crystal Growth and Design</i> , 2015, 15, 4438-4447. | 1.4 | 8 |
| 10 | Molecular dynamics simulations of bio-active phosphate-based glass surfaces. <i>Journal of Non-Crystalline Solids</i> , 2016, 451, 131-137. | 1.5 | 8 |
| 11 | A molecular dynamics study of the effect of water diffusion into bio-active phosphate-based glass surfaces on their dissolution behaviour. <i>Journal of Non-Crystalline Solids</i> , 2020, 548, 120332. | 1.5 | 4 |
| 12 | Self-assembling of calcium salt of the new DNA base 5-carboxylcytosine. <i>Applied Surface Science</i> , 2017, 407, 297-306. | 3.1 | 3 |