

# Hector H Hernandez

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

926  
citations

759233

12  
h-index

839539

18  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1574  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Crystal Engineering of Binary Organic Eutectics: Significant Improvement in the Physicochemical Properties of Polycyclic Aromatic Hydrocarbons via the Computational and Mechanochemical Discovery of Composite Materials. <i>Crystal Growth and Design</i> , 2021, 21, 4151-4161. | 3.0  | 6         |
| 2  | Recent Progress and Trends in the Development of Microbial Biofuels from Solid Waste—A Review. <i>Energies</i> , 2021, 14, 6011.   | 3.1  | 7         |
| 3  | Efficient Screening for Ternary Molecular Ionic Cocrystals Using a Complementary Mechanochemistry and Computational Structure Prediction Approach. <i>Chemistry - A European Journal</i> , 2020, 26, 4752-4765.  | 3.3  | 27        |
| 4  | Growth and Nitrate Uptake in <i>Nannochloropsis gaditana</i> and <i>Tetraselmis chuii</i> Cultures Grown in Sequential Batch Reactors. <i>Frontiers in Marine Science</i> , 2020, 7, .   | 2.5  | 12        |
| 5  | Comprehensive Bioenergetic Evaluation of Microbial Pathway Variants in Syntrophic Propionate Oxidation. <i>MSystems</i> , 2020, 5, .   | 3.8  | 8         |
| 6  | Microalgae cultivation and harvesting: Growth performance and use of flocculants - A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109364.  | 16.4 | 101       |
| 7  | 3D printed feed spacers based on triply periodic minimal surfaces for flux enhancement and biofouling mitigation in RO and UF. <i>Desalination</i> , 2018, 425, 12-21.   | 8.2  | 122       |
| 8  | Mass transfer analysis of ultrafiltration using spacers based on triply periodic minimal surfaces: Effects of spacer design, directionality and voidage. <i>Journal of Membrane Science</i> , 2018, 561, 89-98.  | 8.2  | 64        |
| 9  | Microbial Growth under Supercritical CO <sub>2</sub> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 2881-2892.  | 3.1  | 44        |
| 10 | Supercritical Water Desulfurization of Organic Sulfides Is Consistent with Free-Radical Kinetics. <i>Energy &amp; Fuels</i> , 2013, 27, 6108-6117.   | 5.1  | 90        |
| 11 | Direct enrichment of perchlorate-reducing microbial community for efficient electroactive perchlorate reduction in biocathodes. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013, 40, 1321-1327.   | 3.0  | 15        |
| 12 | Hydrophilicity of a Single DNA Molecule. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2807-2818.  | 3.1  | 20        |
| 13 | Crystal Structures of the GCaMP Calcium Sensor Reveal the Mechanism of Fluorescence Signal Change and Aid Rational Design. <i>Journal of Biological Chemistry</i> , 2009, 284, 6455-6464.  | 3.4  | 226       |
| 14 | Crystal structures of the GCaMP calcium sensor protein reveal the mechanism of fluorescence signal change and aid rational design. <i>FASEB Journal</i> , 2009, 23, 517.1.   | 0.5  | 0         |
| 15 | Thioredoxin Reductase from <i>Thermoplasma acidophilum</i> : A New Twist on Redox Regulation. <i>Biochemistry</i> , 2008, 47, 9728-9737.   | 2.5  | 21        |
| 16 | Direct Electrochemical Analyses of a Thermophilic Thioredoxin Reductase: Interplay between Conformational Change and Redox Chemistry. <i>Biochemistry</i> , 2008, 47, 9738-9746.   | 2.5  | 10        |
| 17 | Direct Electrochemical Characterization of Archaeal Thioredoxins. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4145-4147.  | 13.8 | 21        |
| 18 | Substantial Energetic Improvement with Minimal Structural Perturbation in a High Affinity Mutant Antibody. <i>Journal of Molecular Biology</i> , 2004, 343, 685-701.   | 4.2  | 121       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Synthesis and bacterial expression of a gene encoding the heme domain of assimilatory nitrate reductase. Archives of Biochemistry and Biophysics, 2002, 402, 38-50. | 3.0 | 11        |