

# Fernando Vega

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/461629/publications.pdf>

Version: 2024-02-01

17  
papers

612  
citations

840776

11  
h-index

888059

17  
g-index

18  
all docs

18  
docs citations

18  
times ranked

691  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Carbon capture and utilization technologies: a literature review and recent advances. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 1403-1433.   | 2.3  | 207       |
| 2  | Review: recent advances in biogas purifying technologies. International Journal of Green Energy, 2019, 16, 401-412.   | 3.8  | 85        |
| 3  | Biogas upgrading by cryogenic techniques. Environmental Chemistry Letters, 2019, 17, 1251-1261.   | 16.2 | 71        |
| 4  | Alternatives for oxygen-selective membrane systems and their integration into the oxy-fuel combustion process: A review. Separation and Purification Technology, 2019, 229, 115708.   | 7.9  | 41        |
| 5  | Converting CO <sub>2</sub> from biogas and MgCl <sub>2</sub> residues into valuable magnesium carbonate: A novel strategy for renewable energy production. Energy, 2019, 180, 457-464.  | 8.8  | 32        |
| 6  | Synergizing carbon capture storage and utilization in a biogas upgrading lab-scale plant based on calcium chloride: Influence of precipitation parameters. Science of the Total Environment, 2019, 670, 59-66.                | 8.0  | 29        |
| 7  | Regeneration of Sodium Hydroxide from a Biogas Upgrading Unit through the Synthesis of Precipitated Calcium Carbonate: An Experimental Influence Study of Reaction Parameters. Processes, 2018, 6, 205.                       | 2.8  | 28        |
| 8  | Evaluation of MEA 5 M performance at different CO <sub>2</sub> concentrations of flue gas tested at a CO <sub>2</sub> capture lab-scale plant. Energy Procedia, 2017, 114, 6222-6228.   | 1.8  | 27        |
| 9  | Novel process for carbon capture and utilization and saline wastes valorization. Journal of Natural Gas Science and Engineering, 2020, 73, 103071.  | 4.4  | 18        |
| 10 | Understanding the influence of the alkaline cation K <sup>+</sup> or Na <sup>+</sup> in the regeneration efficiency of a biogas upgrading unit. International Journal of Energy Research, 2019, 43, 1578-1585.                | 4.5  | 14        |
| 11 | Professional design of chemical plants based on problem-based learning on a pilot plant. Education for Chemical Engineers, 2019, 26, 30-34.   | 4.8  | 13        |
| 12 | EXPERIENCIAS DE APRENDIZAJE EN INGENIERÍA QUÍMICA: DISEÑO, MONTAJE Y PUESTA EN MARCHA DE UNA UNIDAD DE DESTILACIÓN A ESCALA LABORATORIO MEDIANTE EL APRENDIZAJE BASADO EN PROBLEMAS. Formacion Universitaria, 2014, 7, 13-22. | 0.7  | 12        |
| 13 | Modeling and simulation of an integrated power-to-methanol approach via high temperature electrolysis and partial oxy-combustion technology. International Journal of Hydrogen Energy, 2021, 46, 34128-34147.                 | 7.1  | 10        |
| 14 | Development of Partial Oxy-combustion Technology: New Solvents Applied to CO <sub>2</sub> Capture in Fossil-fuels Power Plants. Energy Procedia, 2014, 63, 484-489.   | 1.8  | 8         |
| 15 | Kinetic Characterization of Solvents for CO <sub>2</sub> Capture under Partial Oxy-combustion Conditions. Energy Procedia, 2017, 114, 2055-2060.  | 1.8  | 6         |
| 16 | Kinetic evaluation of sterically hindered amines under partial oxy-combustion conditions. Journal of Chemical Technology and Biotechnology, 2020, 95, 1858-1864.  | 3.2  | 6         |
| 17 | Thermochemical evaluation of oxygen transport membranes under oxy-combustion conditions in a pilot-scale facility. Journal of Chemical Technology and Biotechnology, 2020, 95, 1865-1875.                                     | 3.2  | 3         |