Ponnivalavan Babu

List of Publications by Year in descending order

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| | 201385 | 395343 |
|----------------|--------------|-----------------------------|
| 4,461 | 27 | 33 |
| citations | h-index | g-index |
| | | |
| | | |
| | | |
| 33 | 33 | 1895 |
| docs citations | times ranked | citing authors |
| | | |
| | | 4,46127citationsh-index3333 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Energy Analysis of Methane-Hydrate-Based Produced Water Desalination. Energy & Fuels, 2021, 35, 2514-2519. | 2.5 | 28 |
| 2 | Technoâ€Economic Evaluation of Cyclopentane Hydrateâ€Based Desalination with Liquefied Natural Gas Cold Energy Utilization. Energy Technology, 2020, 8, 1900212. | 1.8 | 24 |
| 3 | Effect of Salts on TBAB Semi Clathrate Hydrate Formation: Application to Produced Water Desalination. Energy & Fuels, 2020, 34, 12810-12821. | 2.5 | 15 |
| 4 | Hydrate-based desalination (HyDesal) process employing a novel prototype design. Chemical Engineering Science, 2020, 218, 115563. | 1.9 | 47 |
| 5 | Improved Kinetics and Water Recovery with Propane as Co-Guest Gas on the Hydrate-Based Desalination (HyDesal) Process. ChemEngineering, 2019, 3, 31. | 1.0 | 19 |
| 6 | Economic evaluation of energy efficient hydrate based desalination utilizing cold energy from liquefied natural gas (LNG). Desalination, 2019, 463, 69-80. | 4.0 | 86 |
| 7 | A novel conceptual design of hydrate based desalination (HyDesal) process by utilizing LNG cold energy. Applied Energy, 2018, 222, 13-24. | 5.1 | 131 |
| 8 | A Review of Clathrate Hydrate Based Desalination To Strengthen Energy–Water Nexus. ACS Sustainable Chemistry and Engineering, 2018, 6, 8093-8107. | 3.2 | 275 |
| 9 | Impact of fixed bed reactor orientation, liquid saturation, bed volume and temperature on the clathrate hydrate process for pre-combustion carbon capture. Journal of Natural Gas Science and Engineering, 2016, 35, 1499-1510. | 2.1 | 29 |
| 10 | Review of natural gas hydrates as an energy resource: Prospects and challenges. Applied Energy, 2016, 162, 1633-1652. | 5.1 | 1,328 |
| 11 | Carbon dioxide hydrate kinetics in porous media with and without salts. Applied Energy, 2016, 162, 1131-1140. | 5.1 | 113 |
| 12 | Rapid methane hydrate formation to develop a cost effective large scale energy storage system. Chemical Engineering Journal, 2016, 290, 161-173. | 6.6 | 261 |
| 13 | A systematic kinetic study to evaluate the effect of tetrahydrofuran on the clathrate process for pre-combustion capture of carbon dioxide. Energy, 2016, 94, 431-442. | 4.5 | 45 |
| 14 | Experimental measurements and modeling of the dissociation conditions of semiclathrate hydrates of tetrabutyl ammonium nitrate and carbon dioxide. Fluid Phase Equilibria, 2016, 413, 80-85. | 1.4 | 15 |
| 15 | CO ₂ capture using the clathrate hydrate process employing cellulose foam as a porous media. Canadian Journal of Chemistry, 2015, 93, 808-814. | 0.6 | 39 |
| 16 | A review of the hydrate based gas separation (HBGS) process forÂcarbon dioxide pre-combustion capture. Energy, 2015, 85, 261-279. | 4.5 | 481 |
| 17 | Effect of NaCl on methane hydrate formation and dissociation in porous media. Journal of Natural Gas Science and Engineering, 2015, 27, 178-189. | 2.1 | 104 |
| 18 | Methane Production from Natural Gas Hydrates via Carbon Dioxide Fixation. Energy Procedia, 2014, 61, 1776-1779. | 1.8 | 14 |

Ponnivalavan Babu

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|----|--|-----|-----------|
| 19 | Impact of experimental pressure and temperature on semiclathrate hydrate formation for pre-combustion capture of CO2 using tetra-n-butyl ammonium nitrate. Energy, 2014, 78, 458-464. | 4.5 | 29 |
| 20 | The Impact of Pressure and Temperature on Tetra-n-butyl Ammonium Bromide Semi-clathrate Process for Carbon Dioxide Capture. Energy Procedia, 2014, 61, 1780-1783. | 1.8 | 8 |
| 21 | Enhanced kinetics for the clathrate process in a fixed bed reactor in the presence of liquid promoters for pre-combustion carbon dioxide capture. Energy, 2014, 70, 664-673. | 4.5 | 61 |
| 22 | Formation and Dissociation Kinetics of Methane Hydrates in Seawater and Silica Sand. Energy & Fuels, 2014, 28, 2708-2716. | 2.5 | 132 |
| 23 | Unusual behavior of propane as a co-guest during hydrate formation in silica sand: Potential application to seawater desalination and carbon dioxide capture. Chemical Engineering Science, 2014, 117, 342-351. | 1.9 | 131 |
| 24 | Thermodynamic and Kinetic Verification of Tetra- <i>n</i> -butyl Ammonium Nitrate (TBANO ₃) as a Promoter for the Clathrate Process Applicable to Precombustion Carbon Dioxide Capture. Environmental Science & Technology, 2014, 48, 3550-3558. | 4.6 | 67 |
| 25 | Systematic Evaluation of Tetra- <i>n</i> -butyl Ammonium Bromide (TBAB) for Carbon Dioxide Capture Employing the Clathrate Process. Industrial & Engineering Chemistry Research, 2014, 53, 4878-4887. | 1.8 | 104 |
| 26 | HBGS (hydrate based gas separation) process for carbon dioxide capture employing an unstirred reactor with cyclopentane. Energy, 2013, 63, 252-259. | 4.5 | 125 |
| 27 | A New Porous Material to Enhance the Kinetics of Clathrate Process: Application to Precombustion Carbon Dioxide Capture. Environmental Science & amp; Technology, 2013, 47, 13191-13198. | 4.6 | 91 |
| 28 | Hydrate phase equilibrium of ternary gas mixtures containing carbon dioxide, hydrogen and propane. Journal of Chemical Thermodynamics, 2013, 61, 58-63. | 1.0 | 67 |
| 29 | Medium pressure hydrate based gas separation (HBGS) process for pre-combustion capture of carbon dioxide employing a novel fixed bed reactor. International Journal of Greenhouse Gas Control, 2013, 17, 206-214. | 2.3 | 107 |
| 30 | Morphology of Carbon Dioxide–Hydrogen–Cyclopentane Hydrates with or without Sodium Dodecyl Sulfate. Crystal Growth and Design, 2013, 13, 2047-2059. | 1.4 | 86 |
| 31 | Pre-combustion capture of carbon dioxide in a fixed bed reactor using the clathrate hydrate process. Energy, 2013, 50, 364-373. | 4.5 | 222 |
| 32 | Morphology of Methane Hydrate Formation in Porous Media. Energy & Fuels, 2013, 27, 3364-3372. | 2.5 | 145 |
| 33 | Dissociation of Fresh- And Seawater Hydrates along the Phase Boundaries between 2.3 and 17 MPa. Energy & amp: Fuels, 2012, 26, 6240-6246. | 2.5 | 32 |