# Thibaut Charpentier

List of Publications by Year
in descending order



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|---|---|---|---|
| 32 papers | 821 citations | 623734 14 h-index | 526287 27 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 922 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A review of iron carbonate (FeCO3) formation in the oil and gas industry. Corrosion Science, 2018, 142, 312-341. | 6.6 | 126 |
| 2 | Preparation of Magnetic Carboxymethylchitosan Nanoparticles for Adsorption of Heavy Metal Ions. ACS Omega, 2016, 1, 77-83. | 3.5 | 116 |
| 3 | Surface inorganic scale formation in oil and gas industry: As adhesion and deposition processes. Journal of Petroleum Science and Engineering, 2016, 137, 22-32. | 4.2 | 85 |
| 4 | Liquid infused porous surfaces for mineral fouling mitigation. Journal of Colloid and Interface Science, 2015, 444, 81-86. | 9.4 | 62 |
| 5 | Relating iron carbonate morphology to corrosion characteristics for water-saturated supercritical CO2 systems. Journal of Supercritical Fluids, 2015, 98, 183-193. | 3.2 | 53 |
| 6 | Development of anti-icing materials by chemical tailoring of hydrophobic textured metallic surfaces. Journal of Colloid and Interface Science, 2013, 394, 539-544. | 9.4 | 40 |
| 7 | Kinetics study of barium sulphate surface scaling and inhibition with a once-through flow system. Journal of Petroleum Science and Engineering, 2016, 147, 699-706. | 4.2 | 40 |
| 8 | Interfacial and Colloidal Forces Governing Oil Droplet Displacement: Implications for Enhanced Oil Recovery. Colloids and Interfaces, 2018, 2, 30. | 2.1 | 33 |
| 9 | Deposition of Inorganic Carbonate, Sulfate, and Sulfide Scales on Antifouling Surfaces in Multiphase Flow. Energy & Fuels, 2017, 31, 11838-11851. | 5.1 | 29 |
| 10 | Aggregation Behavior of E-SARA Asphaltene Fractions Studied by Small-Angle Neutron Scattering. Energy & Fuels, 2020, 34, 6894-6903. | 5.1 | 25 |
| 11 | An Investigation of Freezing of Supercooled Water on Anti-Freeze Protein Modified Surfaces. Journal of Bionic Engineering, 2013, 10, 139-147. | 5.0 | 24 |
| 12 | A Selfâ€Assembled Binary Protein Model Explains Highâ€Performance Salivary Lubrication from Macro to Nanoscale. Advanced Materials Interfaces, 2020, 7, 1901549. | 3.7 | 24 |
| 13 | Iron carbonate formation kinetics onto corroding and pre-filmed carbon steel surfaces in carbon dioxide corrosion environments. Applied Surface Science, 2019, 469, 135-145. | 6.1 | 21 |
| 14 | Evaluation of laboratory techniques for assessing scale inhibition efficiency. Journal of Petroleum Science and Engineering, 2019, 182, 106347. | 4.2 | 20 |
| 15 | Examining the effect of ionic constituents on crystallization fouling on heat transfer surfaces. International Journal of Heat and Mass Transfer, 2020, 160, 120180. | 4.8 | 17 |
| 16 | Development of a novel once-through flow visualization technique for kinetic study of bulk and surface scaling. Review of Scientific Instruments, 2017, 88, 103903. | 1.3 | 14 |
| 17 | Dewetting dynamics of heavy crude oil droplet in low-salinity fluids at elevated pressures and temperatures. Journal of Colloid and Interface Science, 2021, 596, 420-430. | 9.4 | 14 |
| 18 | Surface Fatigue Behavior of a WC/aC:H Thin-Film and the Tribochemical Impact of Zinc Dialkyldithiophosphate. ACS Applied Materials & Interfaces, 2019, 11, 41676-41687. | 8.0 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Inorganic fouling of heat transfer surface from potable water during convective heat transfer. Applied Thermal Engineering, 2021, 184, 116271. | 6.0 | 12 |
| 20 | Siderite micro-modification for enhanced corrosion protection. Npj Materials Degradation, 2017, 1, . | 5.8 | 10 |
| 21 | Wax deposition using a cold rotating finger: An empirical and theoretical assessment in thermally driven and sloughing regimes. Journal of Petroleum Science and Engineering, 2021, 200, 108252. | 4.2 | 7 |
| 22 | Development of an automated underwater abrasion rig to determine galvanic effects during the growth and localised breakdown of surface films in CO2-containing solutions. Review of Scientific Instruments, 2019, 90, 034101. | 1.3 | 6 |
| 23 | Inorganic mineral precipitation from potable water on heat transfer surfaces. Journal of Crystal Growth, 2020, 537, 125621. | 1.5 | 6 |
| 24 | Role of temperature, roughness and pressure in crystallization fouling from potable water on aluminium surface. Thermal Science and Engineering Progress, 2021, 23, 100911. | 2.7 | 6 |
| 25 | Comparison of characteristic of anti-scaling coating for subsurface safety valve for use in oil and gas industry. , 2014, , . | | 5 |
| 26 | A FENE-P kâ€“Îµ Viscoelastic Turbulence Model Valid up to High Drag Reduction without Friction Velocity Dependence. Applied Sciences (Switzerland), 2020, 10, 8140. | 2.5 | 5 |
| 27 | Crystallization Fouling in Domestic Appliances and Systems. Heat Transfer Engineering, 2022, 43, 1301-1310. | 1.9 | 4 |
| 28 | Lead sulfide scaling in multiphase systems and co-precipitation in the presence of calcium carbonate. Journal of Petroleum Science and Engineering, 2020, 188, 106919. | 4.2 | 3 |
| 29 | Corrosion derived lubricant infused surfaces on X65 carbon steel for improved inorganic scaling performance. Journal of Adhesion Science and Technology, 0, , 1-22. | 2.6 | 2 |
| 30 | Using a Real-Time Visualisation Technique for the Assessment of Surface Scale Kinetics and Mechanisms of Inhibition. , 2016, , . | | 0 |
| 31 | Insights into the Mechanism of Lead Sulfide Pbs Fouling and The Influence of Light Distillate Fraction. , 2018, , . | | 0 |
| 32 | Aqueous Lubrication: A Selfâ€Assembled Binary Protein Model Explains Highâ€Performance Salivary Lubrication from Macro to Nanoscale (Adv. Mater. Interfaces 1/2020). Advanced Materials Interfaces, 2020, 7, 2070002. | 3.7 | 0 |