# Salvador Izquierdo

List of Publications by Year
in descending order

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|---|---|---|---|
| **35**<br>papers | **814**<br>citations | 759233<br>**12**<br>h-index | 501196<br>**28**<br>g-index |
| **35**<br>all docs | **35**<br>docs citations | **35**<br>times ranked | **930**<br>citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Rubber Material-Model Characterization for Coupled Thermo-Mechanical Vulcanization Foaming Processes. Polymers, 2022, 14, 1101. | 4.5 | 3 |
| 2 | Industrial digitalization in the industry 4.0 era: Classification, reuse and authoring of digital models on Digital Twin platforms. Array, 2022, 14, 100176. | 4.0 | 14 |
| 3 | A Practical Approach for Uncertainty Management in Rubber Manufacturing Processes Using Physics-Informed Real-Time Models. Polymers, 2022, 14, 2049. | 4.5 | 1 |
| 4 | A Digital Twin for Friction Prediction in Dynamic Rubber Applications with Surface Textures. Lubricants, 2021, 9, 57. | 2.9 | 12 |
| 5 | Numerical Approach for the Assessment of Micro-Textured Walls Effects on Rubber Injection Moulding. Polymers, 2021, 13, 1739. | 4.5 | 6 |
| 6 | Reduced-order modelling of equations of state using tensor decomposition for robust, accurate and efficient property calculation in high-pressure fluid flow simulations. Journal of Supercritical Fluids, 2020, 165, 104938. | 3.2 | 1 |
| 7 | Virtual Sensor Development for Continuous Microfluidic Processes. IEEE Transactions on Industrial Informatics, 2020, 16, 7774-7781. | 11.3 | 4 |
| 8 | TWINKLE: A digital-twin-building kernel for real-time computer-aided engineering. SoftwareX, 2020, 11, 100419. | 2.6 | 9 |
| 9 | Reduced order models for uncertainty management and zero-defect control in seal manufacturing. , 2019, , . | | 1 |
| 10 | Virtual Sensor Development Based on Reduced Order Models of CFD Data. , 2019, , . | | 2 |
| 11 | Data-driven modeling of semi-batch manufacturing: a rubber compounding test case. , 2019, , . | | 1 |
| 12 | A molecular dynamics model to measure forces between cellulose fibril surfaces: on the effect of non-covalent polyelectrolyte adsorption. Cellulose, 2019, 26, 1449-1466. | 4.9 | 9 |
| 13 | Analysis of mixed adhesive joints considering the compaction process. International Journal of Adhesion and Adhesives, 2017, 76, 3-10. | 2.9 | 20 |
| 14 | Multi-scale permeability of deformable fibrous porous media. Chemical Engineering Science, 2015, 126, 471-482. | 3.8 | 5 |
| 15 | Generalized analytical solution for compressive forces in adhesively-bonded-joint assembling. International Journal of Adhesion and Adhesives, 2014, 52, 26-30. | 2.9 | 3 |
| 16 | Challenges in the electrochemical modelling of solid oxide fuel and electrolyser cells. Renewable and Sustainable Energy Reviews, 2014, 33, 701-718. | 16.4 | 50 |
| 17 | Direct numerical simulation of complex viscoelastic flows via fast lattice-Boltzmann solution of the Fokkerâ€"Planck equation. Journal of Non-Newtonian Fluid Mechanics, 2013, 201, 29-38. | 2.4 | 8 |
| 18 | Modelling of Couette flow in microchannels with textured surfaces. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2012, 226, 14-22. | 1.8 | 1 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Quadrature-based moment closures for non-equilibrium flows: Hard-sphere collisions and approach to equilibrium. Journal of Computational Physics, 2012, 231, 7431-7449. | 3.8 | 9 |
| 20 | A simple numerical methodology for thermal-fluid-structural interactions of air damping over heated micro-cantilevers. Microfluidics and Nanofluidics, 2012, 13, 131-140. | 2.2 | 2 |
| 21 | An open-source library for the numerical modeling of mass-transfer in solid oxide fuel cells. Computer Physics Communications, 2012, 183, 125-146. | 7.5 | 37 |
| 22 | Multiscale characterization of computational rough surfaces and their wear using self-affine principal profiles. Wear, 2012, 274-275, 1-7. | 3.1 | 13 |
| 23 | Finite element implementation and validation of wear modelling in sliding polymer–metal contacts. Wear, 2012, 284-285, 52-64. | 3.1 | 37 |
| 24 | Roof-top solar energy potential under performance-based building energy codes: The case of Spain. Solar Energy, 2011, 85, 208-213. | 6.1 | 55 |
| 25 | IMPROVING THE ACCURACY OF LATTICE BOLTZMANN SIMULATIONS OF LIQUID MICROFLOWS. International Journal for Multiscale Computational Engineering, 2011, 9, 89-96. | 1.2 | 0 |
| 26 | Momentum transfer correction for macroscopic-gradient boundary conditions in lattice Boltzmann methods. Journal of Computational Physics, 2010, 229, 2497-2506. | 3.8 | 10 |
| 27 | Porous-layer model for laminar liquid flow in rough microchannels. Microfluidics and Nanofluidics, 2010, 9, 1063-1075. | 2.2 | 5 |
| 28 | Supply-cost curves for geographically distributed renewable-energy resources. Energy Policy, 2010, 38, 667-672. | 8.8 | 13 |
| 29 | Analysis of CSP plants for the definition of energy policies: The influence on electricity cost of solar multiples, capacity factors and energy storage. Energy Policy, 2010, 38, 6215-6221. | 8.8 | 110 |
| 30 | Optimal preconditioning of lattice Boltzmann methods. Journal of Computational Physics, 2009, 228, 6479-6495. | 3.8 | 16 |
| 31 | Analysis of open boundary effects in unsteady lattice Boltzmann simulations. Computers and Mathematics With Applications, 2009, 58, 914-921. | 2.7 | 25 |
| 32 | A method for estimating the geographical distribution of the available roof surface area for large-scale photovoltaic energy-potential evaluations. Solar Energy, 2008, 82, 929-939. | 6.1 | 269 |
| 33 | Characteristic nonreflecting boundary conditions for open boundaries in lattice Boltzmann methods. Physical Review E, 2008, 78, 046707. | 2.1 | 49 |
| 34 | Preconditioned Navier-Stokes schemes from the generalised lattice Boltzmann equation. Progress in Computational Fluid Dynamics, 2008, 8, 189. | 0.2 | 12 |
| 35 | Lattice-Boltzmann LES of Vortex Shedding in the Wake of a Square Cylinder. , 2007, , 203-217. | | 2 |