

Victor Sans

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,182
citations

147801

31
h-index

149698

56
g-index

69
all docs

69
docs citations

69
times ranked

3789
citing authors

#	ARTICLE	IF	CITATIONS
1	Configurable 3D-Printed millifluidic and microfluidic "lab on a chip"™ reactionware devices. Lab on a Chip, 2012, 12, 3267.	6.0	434
2	A self optimizing synthetic organic reactor system using real-time in-line NMR spectroscopy. Chemical Science, 2015, 6, 1258-1264.	7.4	209
3	Towards dial-a-molecule by integrating continuous flow, analytics and self-optimisation. Chemical Society Reviews, 2016, 45, 2032-2043.	38.1	179
4	3D-printed devices for continuous-flow organic chemistry. Beilstein Journal of Organic Chemistry, 2013, 9, 951-959.	2.2	147
5	Selective CO ₂ Hydrogenation to Formic Acid with Multifunctional Ionic Liquids. ACS Catalysis, 2018, 8, 1628-1634.	11.2	132
6	Pd catalysts immobilized onto gel-supported ionic liquid-like phases (g-SILLPs): A remarkable effect of the nature of the support. Journal of Catalysis, 2010, 269, 150-160.	6.2	107
7	Paramagnetic ionic liquid-coated SiO ₂ @Fe ₃ O ₄ nanoparticles "The next generation of magnetically recoverable nanocatalysts applied in the glycolysis of PET. Applied Catalysis B: Environmental, 2020, 260, 118110.	20.2	94
8	Pd(0) supported onto monolithic polymers containing IL-like moieties. Continuous flow catalysis for the Heck reaction in near-critical EtOH. Chemical Communications, 2006, , 3095.	4.1	88
9	Assembly of a Gigantic Polyoxometalate Cluster {W ₂₀₀ Co ₈ O ₆₆₀ } in a Networked Reactor System. Angewandte Chemie - International Edition, 2012, 51, 12759-12762.	13.8	85
10	Base supported ionic liquid-like phases as catalysts for the batch and continuous-flow Henry reaction. Green Chemistry, 2008, 10, 401.	9.0	83
11	Polymer-Supported Ionic-Liquid-Like Phases (SILLPs): Transferring Ionic Liquid Properties to Polymeric Matrices. Chemistry - A European Journal, 2011, 17, 1894-1906.	3.3	83
12	3D-Printable Photochromic Molecular Materials for Reversible Information Storage. Advanced Materials, 2018, 30, e1800159.	21.0	75
13	Palladium N-methylimidazolium supported complexes as efficient catalysts for the Heck reaction. Tetrahedron Letters, 2006, 47, 2311-2314.	1.4	72
14	Continuous parallel ESI-MS analysis of reactions carried out in a bespoke 3D printed device. Beilstein Journal of Nanotechnology, 2013, 4, 285-291.	2.8	67
15	Investigation of pressure drop in 3D replicated open-cell foams: Coupling CFD with experimental data on additively manufactured foams. Chemical Engineering Journal, 2019, 377, 120123.	12.7	67
16	An autonomous organic reaction search engine for chemical reactivity. Nature Communications, 2017, 8, 15733.	12.8	66
17	A flow-system array for the discovery and scale up of inorganic clusters. Nature Chemistry, 2012, 4, 1037-1043.	13.6	63
18	Tuneable 3D printed bioreactors for transaminations under continuous-flow. Green Chemistry, 2017, 19, 5345-5349.	9.0	63

#	ARTICLE	IF	CITATIONS
19	PdCl ₂ (P(OPh) ₃) ₂ Catalyzed Coupling and Carbonylative Coupling of Phenylacetylenes with Aryl Iodides in Organic Solvents and in Ionic Liquids. <i>Catalysis Letters</i> , 2006, 109, 37-41.	2.6	61
20	Advanced reactor engineering with 3D printing for the continuous-flow synthesis of silver nanoparticles. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 129-136.	3.7	56
21	State-of-the-art and limitations in the life cycle assessment of ionic liquids. <i>Journal of Cleaner Production</i> , 2019, 217, 844-858.	9.3	55
22	On the real catalytically active species for CO ₂ fixation into cyclic carbonates under near ambient conditions: Dissociation equilibrium of [BMIm][Fe(NO) ₂ Cl ₂] dependant on reaction temperature. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 240-250.	20.2	55
23	Recent Developments in the Modelling of Heterogeneous Catalysts for CO ₂ Conversion to Chemicals. <i>ChemCatChem</i> , 2020, 12, 1802-1825.	3.7	55
24	Efficient carbon dioxide hydrogenation to formic acid with buffering ionic liquids. <i>Nature Communications</i> , 2021, 12, 231.	12.8	54
25	Polymer Cocktail: A Multitask Supported Ionic Liquid-Like Species to Facilitate Multiple and Consecutive C-C Coupling Reactions. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 3013-3021.	4.3	50
26	Redox-active organic-inorganic hybrid polyoxometalate micelles. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11577-11581.	10.3	41
27	Catalyst design for highly efficient carbon dioxide hydrogenation to formic acid under buffering conditions. <i>Journal of Catalysis</i> , 2020, 385, 1-9.	6.2	40
28	A Simple Approach to the Visible-Light Photoactivation of Molecular Metal Oxides. <i>Inorganic Chemistry</i> , 2017, 56, 12169-12177.	4.0	38
29	Facile Stoichiometric Reductions in Flow: An Example of Artemisinin. <i>Organic Process Research and Development</i> , 2012, 16, 1039-1042.	2.7	37
30	Orbital Engineering: Photoactivation of an Organofunctionalized Polyoxotungstate. <i>Chemistry - A European Journal</i> , 2017, 23, 47-50.	3.3	35
31	Supported N-heterocyclic carbene rhodium complexes as highly selective hydroformylation catalysts. <i>Journal of Molecular Catalysis A</i> , 2009, 309, 131-136.	4.8	32
32	Polymer-supported Pd-NHC complexes: Strategies for the development of multifunctional systems. <i>Catalysis Today</i> , 2012, 196, 137-147.	4.4	31
33	An Oxalate-Bridged Binuclear Iron(III) Ionic Liquid for the Highly Efficient Glycolysis of Polyethylene Terephthalate under Microwave Irradiation. <i>ChemPlusChem</i> , 2019, 84, 786-793.	2.8	31
34	Gel-Polymer Electrolytes Based on Poly(Ionic Liquid)/Ionic Liquid Networks. <i>ACS Applied Polymer Materials</i> , 2021, 3, 200-208.	4.4	30
35	Stereoselective Chemoenzymatic Synthesis of Enantiopure 2-(1H-imidazol-yl)cycloalkanols under Continuous Flow Conditions. <i>ACS Catalysis</i> , 2012, 2, 1976-1983.	11.2	28
36	Tunable Ionic Control of Polymeric Films for Inkjet Based 3D Printing. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3984-3991.	6.7	27

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37	Emerging trends in flow chemistry enabled by 3D printing: Robust reactors, biocatalysis and electrochemistry. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 25, 100367.	5.9	27
38	Residence time distribution, a simple tool to understand the behaviour of polymeric mini-flow reactors. <i>RSC Advances</i> , 2012, 2, 8721.	3.6	25
39	Redox-Active Hybrid Polyoxometalate-Stabilised Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14331-14335.	13.8	25
40	Environmental performance of 3D-Printing polymerisable ionic liquids. <i>Journal of Cleaner Production</i> , 2019, 214, 29-40.	9.3	24
41	Tuning the Reactivity of TEMPO during Electrocatalytic Alcohol Oxidations in Room-Temperature Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11691-11699.	6.7	21
42	Non-equilibrium dynamic control of gold nanoparticle and hyper-branched nanogold assemblies. <i>Chemical Science</i> , 2014, 5, 1153.	7.4	19
43	Effects of chain length on the size, stability, and electronic structure of redox-active organic-inorganic hybrid polyoxometalate micelles. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 995-999.	3.4	16
44	Decoupling manufacturing from application in additive manufactured antimicrobial materials. <i>Biomaterials Science</i> , 2021, 9, 5397-5406.	5.4	13
45	Development of efficient processes under flow conditions based on catalysts immobilized onto monolithic supported ionic liquid-like phases. <i>Pure and Applied Chemistry</i> , 2009, 81, 1991-2000.	1.9	12
46	Continuous-flow crystallisation in 3D-printed compact devices. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1682-1688.	3.7	12
47	Towards highly efficient continuous-flow catalytic carbon dioxide cycloadditions with additively manufactured reactors. <i>Green Chemistry</i> , 2022, 24, 3300-3308.	9.0	12
48	Investigating the impact of copper leaching on combustion characteristics and particulate emissions in HPCR diesel engines. <i>Fuel</i> , 2020, 263, 116719.	6.4	11
49	Pd/C catalysts based on synthetic carbons with bi- and tri-modal pore-size distribution: applications in flow chemistry. <i>Catalysis Science and Technology</i> , 2016, 6, 2387-2395.	4.1	10
50	Coding the Assembly of Polyoxotungstates with a Programmable Reaction System. <i>Inorganic Chemistry</i> , 2017, 56, 5089-5095.	4.0	9
51	SE(R)RS devices fabricated by a laser electrodispersion method. <i>Analyst</i> , 2011, 136, 3295.	3.5	8
52	Tuning the Catalytic Efficiency of Palladium Supported Complexes (Pd-NHC-SILPs): The Cooperative Effect of the Ionic Liquid-Like Groups. <i>Macromolecular Symposia</i> , 2012, 317-318, 259-266.	0.7	6
53	Redox-Active Hybrid Polyoxometalate-Stabilised Gold Nanoparticles. <i>Angewandte Chemie</i> , 2020, 132, 14437-14441.	2.0	6
54	Electrochemical Oscillatory Baffled Reactors Fabricated with Additive Manufacturing for Efficient Continuous-Flow Oxidations. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2388-2396.	6.7	6

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55	Continuous-Flow Synthesis of Orange Emitting Sn(II)-Doped CsBr Materials. <i>Advanced Optical Materials</i> , 2021, 9, 2101024.	7.3	5
56	Flow Chemistry – Applications. , 2021, , .		4
57	Tandem transformation of glycerol to esters. <i>Journal of Biotechnology</i> , 2012, 162, 390-397.	3.8	2
58	Photochromic Materials: 3D-Printable Photochromic Molecular Materials for Reversible Information Storage (<i>Adv. Mater.</i> 26/2018). <i>Advanced Materials</i> , 2018, 30, 1870193.	21.0	2
59	Additively Manufactured Advanced Flow Reactors for Enhanced Heat and Mass Transfer. <i>RSC Green Chemistry</i> , 2019, , 416-439.	0.1	1
60	Redox-active hierarchical assemblies of hybrid polyoxometalate nanostructures at carbon surfaces. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1777-1784.	6.0	1