

Surya Prakash

List of Publications by Year in descending order

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370
papers

25,606
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8181

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all docs

456
docs citations

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times ranked

17379
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated carbon capture and utilization to methanol with epoxide-functionalized polyamines under homogeneous catalytic conditions. Journal of Organometallic Chemistry, 2022, 965-966, 122331.	1.8	10
2	Nickel and Copper Catalyzed α -Phosphonodifluoromethylation of Arylboronic Acids with $\text{BrCF}_2\text{P}(\text{O})(\text{OEt})_2$ for the Synthesis of Phosphonodifluoromethylarenes. Chemistry - A European Journal, 2022, 28, .	3.3	6
3	Visible Light-Mediated Metal-Free Chlorodifluoromethylation of Arenes and Heteroarenes by a Hypervalent Iodine EDA Complex. European Journal of Organic Chemistry, 2022, 2022, .	2.4	5
4	Optimization of platinum loading on partially fluorinated carbon catalysts for enhanced proton exchange membrane fuel cell performance. Journal of Power Sources, 2022, 542, 231725.	7.8	7
5	α -Halofluorocyclopropanes via [2 + 1] Cycloadditions of In Situ Generated CFX Carbene with Alkenes. Organic Letters, 2022, 24, 5417-5421.	4.6	3
6	Ionomer Significance in Alkaline Direct Methanol Fuel Cell to Achieve High Power with a Quarternized Poly(terphenylene) Membrane. ACS Applied Energy Materials, 2021, 4, 5858-5867.	5.1	18
7	Reassessing the Necessity of the Drying Step in Hummer's Method for Graphene Oxide Synthesis. Electroanalysis, 2021, 33, 2323-2334.	2.9	5
8	Chemoselective N - and O -Difluoromethylation of 2-Pyridones, Isoquinolinones, and Quinolinones with TMSCF_2Br . Organic Letters, 2021, 23, 6494-6498.	4.6	18
9	Direct Synthesis of Tri- α -Difluoromethyl Ketones from Carboxylic Acids by Cross-Coupling with Acyloxyphosphonium Ions. Chemistry - A European Journal, 2021, 27, 15908-15913.	3.3	8
10	Silicon-based difluoromethylations, difluoromethylenations, pentafluoroethylations, and related fluoroalkylations. , 2021, , 117-218.		7
11	Glycol assisted efficient conversion of CO_2 captured from air to methanol with a heterogeneous $\text{Cu/ZnO/Al}_2\text{O}_3$ catalyst. Journal of CO_2 Utilization, 2021, 54, 101762.	6.8	15
12	Tertiary Amine-Ethylene Glycol Based Tandem CO_2 Capture and Hydrogenation to Methanol: Direct Utilization of Post-Combustion CO_2 . ChemSusChem, 2020, 13, 6318-6322.	6.8	30
13	Renewable Methanol Synthesis through Single Step Bi-reforming of Biogas. Industrial & Engineering Chemistry Research, 2020, 59, 10542-10551.	3.7	21
14	Protonation of CH_3N_3 and CF_3N_3 in Superacids: Isolation and Structural Characterization of Long-Lived Methyl- and Trifluoromethylamino Diazonium Ions. Angewandte Chemie - International Edition, 2020, 59, 12520-12526.	13.8	1
15	Protonierung von CH_3N_3 und CF_3N_3 in Supersäuren: Isolierung und strukturelle Charakterisierung von langlebigen Methyl- und Trifluormethylamino-Diazonium-Ionen. Angewandte Chemie, 2020, 132, 12620-12627.	2.0	0
16	Hydroxide Based Integrated CO_2 Capture from Air and Conversion to Methanol. Journal of the American Chemical Society, 2020, 142, 4544-4549.	13.7	146
17	Synthetic Advances in Nucleophilic and Related Tri- and Difluoromethylation Protocols. , 2020, , 93-176.		3
18	Catalyst-Free Regioselective N^2 Arylation of 1,2,3-Triazoles Using Diaryl Iodonium Salts. Organic Letters, 2019, 21, 6255-6258.	4.6	25

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19	Catalytic Homogeneous Hydrogenation of CO to Methanol via Formamide. <i>Journal of the American Chemical Society</i> , 2019, 141, 12518-12521.	13.7	37
20	Cyclobutane dication, (CH ₂) ₄ ²⁺ : a model for a two-electron four-center (2e-4c) Woodward-Hoffmann frozen transition state. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 1475-1479.	2.2	2
21	Integrated CO ₂ Capture and Conversion to Formate and Methanol: Connecting Two Threads. <i>Accounts of Chemical Research</i> , 2019, 52, 2892-2903.	15.6	210
22	ipso-Bromination/iodination of arylboronic acids: Poly(4-vinylpyridine)-Br ₂ /I ₂ complexes as safe and efficient reagents. <i>Tetrahedron Letters</i> , 2019, 60, 151020.	1.4	2
23	Studies on Long-Lived (Pentafluorosulfanyl)phenyl-Substituted Carbocations. <i>Journal of Organic Chemistry</i> , 2019, 84, 11724-11734.	3.2	3
24	Reduced Graphene Oxide Supported Palladium Nanoparticles for Enhanced Electrocatalytic Activity toward Formate Electrooxidation in an Alkaline Medium. <i>ACS Applied Energy Materials</i> , 2019, 2, 7104-7111.	5.1	37
25	Photochemistry of 2-Nitroarenes: 2-Nitrophenyl-1,1,1-trifluoromethyl Carbinols as Synthons for Fluoroorganics. <i>Journal of the American Chemical Society</i> , 2019, 141, 15921-15931.	13.7	5
26	2-Nitrodiphenylalkanes/alkenes as adept photosynthons for direct access to valuable N-heterocycles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 375, 158-165.	3.9	0
27	One-pot preparation of (RSe)2CF ₂ and (RS)2CF ₂ compounds via insertion of TMSCF ₃ -derived difluorocarbene into diselenides and disulfides. <i>Tetrahedron</i> , 2019, 75, 4167-4173.	1.9	13
28	Effect of the Cathode Catalyst Layer Thickness on the Performance in Direct Methanol Fuel Cells. <i>Electroanalysis</i> , 2019, 31, 718-725.	2.9	6
29	A One-Pot Synthesis of Platinum Nanoparticles on Electrochemically Exfoliated Graphite. <i>ChemistrySelect</i> , 2019, 4, 4767-4770.	1.5	0
30	Halotrimethylsilane-Nitrite/Nitrate Salts: Efficient and Versatile Reagent System for Diverse Organic Synthetic Transformations. <i>Synlett</i> , 2019, 30, 1037-1047.	1.8	5
31	Direct Access to Acyl Fluorides from Carboxylic Acids Using a Phosphine/Fluoride Deoxyfluorination Reagent System. <i>Organic Letters</i> , 2019, 21, 1659-1663.	4.6	64
32	Combined CO ₂ Capture and Hydrogenation to Methanol: Amine Immobilization Enables Easy Recycling of Active Elements. <i>ChemSusChem</i> , 2019, 12, 3172-3177.	6.8	54
33	Oxidation-Resistant, Cost-Effective Epoxide-Modified Polyamine Adsorbents for CO ₂ Capture from Various Sources Including Air. <i>ChemSusChem</i> , 2019, 12, 1712-1723.	6.8	67
34	Mechanistic Insights into Ruthenium-Pincer-Catalyzed Amine-Assisted Homogeneous Hydrogenation of CO ₂ to Methanol. <i>Journal of the American Chemical Society</i> , 2019, 141, 3160-3170.	13.7	123
35	Siladifluoromethylation and Deoxo-trifluoromethylation of P ^V -H Compounds with TMSCF ₃ : Route to P ^V -CF ₂ ²⁺ Transfer Reagents and P ^{IV} -CF ₃ Compounds. <i>Organic Letters</i> , 2019, 21, 1526-1529.	4.6	22
36	Aqueous Base Promoted <i>ortho</i> -Difluoromethylation of Carboxylic Acids with TMSCF ₂ Br: Bench-Top Access to Difluoromethyl Esters. <i>Organic Letters</i> , 2019, 21, 9377-9380.	4.6	13

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37	Nucleophilic difluoromethylation of aromatic aldehydes using trimethyl(trifluoromethyl)silane (TMSCF ₃). Journal of Fluorine Chemistry, 2018, 208, 10-14.	1.7	18
38	Direct Difluorination–Hydroxylation, Trifluorination, and C(sp ²)–H Fluorination of Enamides. Organic Letters, 2018, 20, 1042-1045.	4.6	33
39	Integrative CO ₂ Capture and Hydrogenation to Methanol with Reusable Catalyst and Amine: Toward a Carbon Neutral Methanol Economy. Journal of the American Chemical Society, 2018, 140, 1580-1583.	13.7	203
40	Molecular Structure and Crystal Packing of Monofluoromethoxyarenes. European Journal of Organic Chemistry, 2018, 2018, 3724-3734.	2.4	6
41	Advances in Homogeneous Catalysis for Low Temperature Methanol Reforming in the Context of the Methanol Economy. Topics in Catalysis, 2018, 61, 542-559.	2.8	48
42	Difference and Significance of Regenerative Versus Renewable Carbon Fuels and Products. Topics in Catalysis, 2018, 61, 522-529.	2.8	26
43	Advances in catalytic homogeneous hydrogenation of carbon dioxide to methanol. Journal of CO ₂ Utilization, 2018, 23, 212-218.	6.8	154
44	A Carbon-Neutral CO ₂ Capture, Conversion, and Utilization Cycle with Low-Temperature Regeneration of Sodium Hydroxide. Journal of the American Chemical Society, 2018, 140, 16873-16876.	13.7	79
45	C(sp ²)–H Trifluoromethylation of enamides using TMSCF ₃ : access to trifluoromethylated isoindolinones, isoquinolinones, 2-pyridinones and other heterocycles. Chemical Communications, 2018, 54, 10574-10577.	4.1	45
46	Structural parameters to consider in selecting silica supports for polyethylenimine based CO ₂ solid adsorbents. Importance of pore size. Journal of CO ₂ Utilization, 2018, 26, 246-253.	6.8	37
47	Effect of pH on the Reduction of Graphene Oxide on its Structure and Oxygen Reduction Capabilities in the Alkaline Media. Electroanalysis, 2018, 30, 1938-1945.	2.9	3
48	Toward a Sustainable Carbon Cycle. , 2018, , 919-962.		27
49	Catalyst and solvent free microwave-assisted synthesis of substituted 1,2,3-triazoles. Green Chemistry, 2018, 20, 3700-3704.	9.0	24
50	Superelectrophilic Activation of Phenylglyoxamides: Efficient Synthesis of Triarylacetamides and Fluorencarboxamides by Superacid Catalysis. Topics in Catalysis, 2018, 61, 652-663.	2.8	3
51	Regioselective deuteration of alcohols in D ₂ O catalysed by homogeneous manganese and iron pincer complexes. Green Chemistry, 2018, 20, 2706-2710.	9.0	30
52	Beyond Oil and Gas. , 2018, , .		94
53	Efficient Reversible Hydrogen Carrier System Based on Amine Reforming of Methanol. Journal of the American Chemical Society, 2017, 139, 2549-2552.	13.7	102
54	Benzodiazines: recent synthetic advances. Chemical Society Reviews, 2017, 46, 3060-3094.	38.1	63

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55	Chloro/bromotrimethylsilane-Cu(NO ₃) ₂ ·3H ₂ O: Safe and efficient reagent system for the decarboxylative ipso-nitration and dibromination of cinnamic acids. Tetrahedron Letters, 2017, 58, 2842-2845.	1.4	14
56	Remarkable effect of moisture on the CO ₂ adsorption of nano-silica supported linear and branched polyethylenimine. Journal of CO ₂ Utilization, 2017, 19, 91-99.	6.8	73
57	Effect of the thickness of the anode electrode catalyst layers on the performance in direct methanol fuel cells. Journal of Power Sources, 2017, 352, 165-173.	7.8	39
58	Selective Late-Stage Hydrodefluorination of Trifluoromethylarenes: A Facile Access to Difluoromethylarenes. European Journal of Organic Chemistry, 2017, 2017, 2322-2326.	2.4	71
59	Chemical Formation of Methanol and Hydrocarbon (‘‘Organic’’) Derivatives from CO ₂ and H ₂ ‘‘Carbon Sources for Subsequent Biological Cell Evolution and Life’s Origin. Journal of the American Chemical Society, 2017, 139, 566-570.	13.7	26
60	Hydrothermal Preparation, Crystal Chemistry, and Redox Properties of Iron Muscovite Clay. ACS Applied Materials & Interfaces, 2017, 9, 34024-34032.	8.0	5
61	Manganese-Catalyzed Sequential Hydrogenation of CO ₂ to Methanol via Formamide. ACS Catalysis, 2017, 7, 6347-6351.	11.2	203
62	The Effect of Annealing Temperature on Nickel on Reduced Graphene Oxide Catalysts on Urea Electrooxidation. Electrochimica Acta, 2017, 253, 489-497.	5.2	40
63	Silicon-Based Reagents for Difluoromethylation and Difluoromethylenation Reactions. Synthesis, 2017, 49, 3394-3406.	2.3	63
64	One-Pot Conversion of Methane to Light Olefins or Higher Hydrocarbons through H-SAPO-34-Catalyzed in Situ Halogenation. Journal of the American Chemical Society, 2017, 139, 18078-18083.	13.7	31
65	Cyclopentyl, cyclohexyl, and cycloheptyl cations: computational studies of the structures, stability, ¹³ C NMR chemical shifts, and possible rearrangement pathways. Structural Chemistry, 2017, 28, 317-326.	2.0	5
66	Direct synthesis of 2-/3-(trifluoromethyl)thiochroman-4-ones: Superacid-induced tandem alkylation-cyclic acylation of benzenethiols using 2-/3-(trifluoromethyl)acrylic acid. Journal of Fluorine Chemistry, 2017, 196, 63-66.	1.7	4
67	George Andrew Olah. Resonance, 2017, 22, 1111-1153.	0.3	1
68	Synthesis of Chiral Trifluoromethyl Benzylamines by Heterogeneous Catalytic Reductive Amination. Topics in Catalysis, 2016, 59, 1207-1213.	2.8	11
69	Relevance and Significance of Extraterrestrial Abiological Hydrocarbon Chemistry. Journal of the American Chemical Society, 2016, 138, 6905-6911.	13.7	22
70	Diazo Strategy for the Synthesis of Pyridazines: Pivotal Impact of the Configuration of the Diazo Precursor on the Process. Chemistry - A European Journal, 2016, 22, 174-184.	3.3	10
71	Iridium-Catalyzed Continuous Hydrogen Generation from Formic Acid and Its Subsequent Utilization in a Fuel Cell: Toward a Carbon Neutral Chemical Energy Storage. ACS Catalysis, 2016, 6, 7475-7484.	11.2	75
72	CO ₂ capture by amines in aqueous media and its subsequent conversion to formate with reusable ruthenium and iron catalysts. Green Chemistry, 2016, 18, 5831-5838.	9.0	132

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73	Direct Difluoromethylenation of Carbonyl Compounds by Using TMSCF ₃ : The Right Conditions. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 4965-4969.	2.4	62
74	The Nucleophilicity of Persistent $\hat{\text{I}}^{\text{--}}$ Monofluoromethide Anions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12845-12849.	13.8	15
75	The Nucleophilicity of Persistent $\hat{\text{I}}^{\text{--}}$ Monofluoromethide Anions. <i>Angewandte Chemie</i> , 2016, 128, 13037-13041.	2.0	6
76	Chemical Aspects of Astrophysically Observed Extraterrestrial Methanol, Hydrocarbon Derivatives, and Ions. <i>Journal of the American Chemical Society</i> , 2016, 138, 1717-1722.	13.7	31
77	Conversion of CO ₂ from Air into Methanol Using a Polyamine and a Homogeneous Ruthenium Catalyst. <i>Journal of the American Chemical Society</i> , 2016, 138, 778-781.	13.7	458
78	Electrophilic amination of aromatics with sodium azide in BF ₃ ·H ₂ O. <i>Tetrahedron Letters</i> , 2016, 57, 288-291.	1.4	15
79	Synthesis of 3-substituted isoindolin-1-ones via a tandem desilylation, cross-coupling, hydroamidation sequence under aqueous phase-transfer conditions. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 85-92.	2.8	41
80	Amine-Free Reversible Hydrogen Storage in Formate Salts Catalyzed by Ruthenium Pincer Complex without pH Control or Solvent Change. <i>ChemSusChem</i> , 2015, 8, 1442-1451.	6.8	107
81	Lewis Acid Catalyzed Condensation–Cyclization Cascade: Direct Synthesis of Di/Trifluoromethyl-1,2,3,4-tetrahydroquinazolines. <i>Chemistry - A European Journal</i> , 2015, 21, 10170-10178.	3.3	10
82	Applicability of linear polyethylenimine supported on nano-silica for the adsorption of CO ₂ from various sources including dry air. <i>RSC Advances</i> , 2015, 5, 52550-52562.	3.6	64
83	Superelectrophilic Activation of Crotonic/Methacrylic Acids: Direct Access to Thiochroman-4-ones from Benzenethiols by Microwave-Assisted One-Pot Alkylation/Cyclic Acylation. <i>Organic Letters</i> , 2015, 17, 6170-6173.	4.6	21
84	Paul von RaguÃ© Schleyer (1930-2014). <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2322-2323.	13.8	0
85	Single Step Bi-reforming and Oxidative Bi-reforming of Methane (Natural Gas) with Steam and Carbon Dioxide to Metgas (CO-2H ₂) for Methanol Synthesis: Self-Sufficient Effective and Exclusive Oxygenation of Methane to Methanol with Oxygen. <i>Journal of the American Chemical Society</i> , 2015, 137, 8720-8729.	13.7	128
86	Poly(4-vinylpyridine)-nitrating mixture complex (PVP-NM): solid nitrating mixture equivalent for safe and efficient aromatic nitration. <i>Green Chemistry</i> , 2015, 17, 3446-3451.	9.0	13
87	Direct S-difluoromethylation of thiols using the Ruppert–Prakash reagent. <i>Journal of Fluorine Chemistry</i> , 2015, 180, 186-191.	1.7	35
88	Taming of superacids: PVP-triflic acid as an effective solid triflic acid equivalent for Friedel–Crafts hydroxyalkylation and acylation. <i>Journal of Fluorine Chemistry</i> , 2015, 171, 102-112.	1.7	16
89	ipso-Nitrosation of arylboronic acids with chlorotrimethylsilane and sodium nitrite. <i>Tetrahedron Letters</i> , 2014, 55, 1975-1978.	1.4	13
90	Stereoselective Synthesis of Fluoroalkenoates and Fluorinated Isoxazolidinones: N-Substituents Governing the Dual Reactivity of Nitrones. <i>Chemistry - A European Journal</i> , 2014, 20, 831-838.	3.3	19

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91	<i>N</i> -Difluoromethylation of Imidazoles and Benzimidazoles Using the Ruppert–Prakash Reagent under Neutral Conditions. <i>Organic Letters</i> , 2014, 16, 54-57.	4.6	75
92	Synthesis of Dihydropyrimidinones/Thiopyrimidinones: Nafion-Ga, an Efficient “Green” Lewis Acid Catalyst for the Biginelli Reaction. <i>Catalysis Letters</i> , 2014, 144, 2012-2020.	2.6	30
93	Easily Regenerable Solid Adsorbents Based on Polyamines for Carbon Dioxide Capture from the Air. <i>ChemSusChem</i> , 2014, 7, 1386-1397.	6.8	133
94	Preparation of fluorinated RNA nucleotide analogs potentially stable to enzymatic hydrolysis in RNA and DNA polymerase assays. <i>Journal of Fluorine Chemistry</i> , 2014, 167, 226-230.	1.7	5
95	CO ₂ capture on easily regenerable hybrid adsorbents based on polyamines and mesocellular silica foam. Effect of pore volume of the support and polyamine molecular weight. <i>RSC Advances</i> , 2014, 4, 19403-19417.	3.6	62
96	Poly(<i>N</i> -vinylpyrrolidone)–H ₂ O ₂ and poly(4-vinylpyridine)–H ₂ O ₂ complexes: solid H ₂ O ₂ equivalents for selective oxidation of sulfides to sulfoxides and ketones to gem-dihydroperoxides. <i>Green Chemistry</i> , 2014, 16, 3616.	9.0	35
97	Recycling of carbon dioxide to methanol and derived products “closing the loop”. <i>Chemical Society Reviews</i> , 2014, 43, 7995-8048.	38.1	1,125
98	Formic Acid As a Hydrogen Storage Medium: Ruthenium-Catalyzed Generation of Hydrogen from Formic Acid in Emulsions. <i>ACS Catalysis</i> , 2014, 4, 311-320.	11.2	72
99	Long-Lived Trifluoromethanide Anion: A Key Intermediate in Nucleophilic Trifluoromethylations. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11575-11578.	13.8	122
100	Effect of configuration of 2-vinyldiazocarbonyl compounds on their reactivity: experimental and computational study. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 682-689.	2.8	14
101	Electrochemical CO ₂ Reduction: Recent Advances and Current Trends. <i>Israel Journal of Chemistry</i> , 2014, 54, 1451-1466.	2.3	356
102	The Trifluoromethyl Group as a Conformational Stabilizer and Probe: Conformational Analysis of Cinchona Alkaloid Scaffolds. <i>Journal of the American Chemical Society</i> , 2014, 136, 10418-10431.	13.7	17
103	Self-Sufficient and Exclusive Oxygenation of Methane and Its Source Materials with Oxygen to Methanol via Metgas Using Oxidative Bi-reforming. <i>Journal of the American Chemical Society</i> , 2013, 135, 10030-10031.	13.7	43
104	Bi-reforming of Methane from Any Source with Steam and Carbon Dioxide Exclusively to Metgas (CO+2H ₂) for Methanol and Hydrocarbon Synthesis. <i>Journal of the American Chemical Society</i> , 2013, 135, 648-650.	13.7	237
105	Direct Synthesis of Diverse β -Fluoroethylamines by a Multicomponent Protocol. <i>Chemistry - A European Journal</i> , 2013, 19, 3579-3583.	3.3	18
106	Difluoro(sulfinato)methylation of <i>N</i> -Sulfinyl Imines Facilitated by 2-Pyridyl Sulfone: Stereoselective Synthesis of Difluorinated β -Amino Sulfonic Acids and Peptidosulfonamides. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10835-10839.	13.8	36
107	Electrochemical reduction of CO ₂ over Sn-Nafion® coated electrode for a fuel-cell-like device. <i>Journal of Power Sources</i> , 2013, 223, 68-73.	7.8	168
108	Thermolysis of trifluoromethyl-containing vinyldiazocarbonyl compounds and X-ray crystal structure analysis of unexpected reaction products. <i>Journal of Fluorine Chemistry</i> , 2013, 156, 322-326.	1.7	4

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109	Organoamines-grafted on nano-sized silica for carbon dioxide capture. Journal of CO2 Utilization, 2013, 1, 1-7.	6.8	36
110	Nucleophilic Trifluoromethylation of Carbonyl Compounds: Trifluoroacetaldehyde Hydrate as a Trifluoromethyl Source. Journal of Organic Chemistry, 2013, 78, 3300-3305.	3.2	38
111	Nafion®-Fe: A New Efficient "Green" Lewis Acid Catalyst for the Ketonic Strecker Reaction. Catalysis Letters, 2013, 143, 303-312.	2.6	16
112	Synthesis of perimidine and 1,5-benzodiazepine derivatives using tamed Brønsted acid, BF ₃ ·H ₂ O. Journal of Fluorine Chemistry, 2013, 152, 99-105.	1.7	20
113	Two-Stage Synthesis of 3-(Perfluoroalkyl)-Substituted Vinyldiazocarbonyl Compounds and Their Nonfluorinated Counterparts: A Comparative Study. Synthesis, 2013, 45, 1215-1226.	2.3	24
114	Air as the renewable carbon source of the future: an overview of CO ₂ capture from the atmosphere. Energy and Environmental Science, 2012, 5, 7833.	30.8	549
115	Taming of Fluoroform: Direct Nucleophilic Trifluoromethylation of Si, B, S, and C Centers. Science, 2012, 338, 1324-1327.	12.6	262
116	Copper-Mediated Difluoromethylation of (Hetero)aryl Iodides and Styryl Halides with Tributyl(difluoromethyl)stannane. Angewandte Chemie - International Edition, 2012, 51, 12090-12094.	13.8	290
117	A Domino Approach of Heck Coupling for the Synthesis of ¹² -Trifluoromethylstyrenes. Organic Letters, 2012, 14, 1146-1149.	4.6	59
118	Silica Nanoparticles as Supports for Regenerable CO ₂ Sorbents. Energy & Fuels, 2012, 26, 3082-3090.	5.1	82
119	Nafion®-Ru: A Sustainable Catalyst for Selective Hydration of Nitriles to Amides. Asian Journal of Organic Chemistry, 2012, 1, 146-149.	2.7	20
120	Efficient synthesis of trifluoromethylated dihydrochalcones, aryl vinyl ketones and indanones by superelectrophilic activation of 4,4,4-trifluoro-3-(trifluoromethyl)crotonic acids. Journal of Fluorine Chemistry, 2012, 143, 292-302.	1.7	20
121	Gallium(III) Triflate: An Efficient and a Sustainable Lewis Acid Catalyst for Organic Synthetic Transformations. Accounts of Chemical Research, 2012, 45, 565-577.	15.6	85
122	Tetrafluoric Acid (1,1,2,2-Tetrafluoroethanesulfonic Acid), Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (HC ₂ F ₄) Organic Synthesis. Advanced Synthesis and Catalysis, 2012, 354, 2163-2171.	4.3	12
123	Enantioselective Synthesis of ^{1±} -Stereogenic ¹³ -Keto Esters via Formal Umpolung. Organic Letters, 2012, 14, 3260-3263.	4.6	32
124	Thermocontrolled benzylimine-benzaldimine rearrangement over Nafion-H catalysts for efficient entry into ^{1±} -trifluoromethylbenzylamines. Tetrahedron Letters, 2012, 53, 607-611.	1.4	10
125	Facile synthesis of ^{1±} -monofluoromethyl alcohols: Nucleophilic monofluoromethylation of aldehydes using TMSCF(SO ₂ Ph) ₂ . Journal of Fluorine Chemistry, 2012, 133, 27-32.	1.7	17
126	Fluoroanalogs of DDT: Superacidic BF ₃ ·H ₂ O Catalyzed Facile Synthesis of 1,1,1-Trifluoro-2,2-diarylethanes and 1,1-Difluoro-2,2-diarylethanes. Organic Letters, 2011, 13, 4128-4131.	4.6	45

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127	Conformational Study of 9-Dehydro-9-Trifluoromethyl Cinchona Alkaloids via ¹⁹ F NMR Spectroscopy: Emergence of Trifluoromethyl Moiety as a Conformational Stabilizer and a Probe. Journal of the American Chemical Society, 2011, 133, 9992-9995.	13.7	34
128	Anthropogenic Chemical Carbon Cycle for a Sustainable Future. Journal of the American Chemical Society, 2011, 133, 12881-12898.	13.7	1,159
129	A Domino Approach (Hydrolysis/Dehydrohalogenation/Heck Coupling) for the Synthesis of Styrene Sulfonate Salts. Journal of the American Chemical Society, 2011, 133, 2140-2143.	13.7	29
130	A new route to α -alkyl- α -fluoromethylenebisphosphonates. Organic and Biomolecular Chemistry, 2011, 9, 4035.	2.8	14
131	Study of operating conditions and cell design on the performance of alkaline anion exchange membrane based direct methanol fuel cells. Journal of Power Sources, 2011, 196, 7967-7972.	7.8	56
132	Carbon Dioxide Capture from the Air Using a Polyamine Based Regenerable Solid Adsorbent. Journal of the American Chemical Society, 2011, 133, 20164-20167.	13.7	428
133	Reduction of Carbonyl to Methylene: Organosilane-Ga(OTf) ₃ as an Efficient Reductant System. Catalysis Letters, 2011, 141, 507-511.	2.6	14
134	N,N-Dimethyl-S-difluoromethyl-S-phenylsulfoximinium tetrafluoroborate: A versatile electrophilic difluoromethylating reagent. Journal of Fluorine Chemistry, 2011, 132, 792-798.	1.7	91
135	Hydrogen Generation from Formic Acid Decomposition by Ruthenium Carbonyl Complexes. Tetraruthenium Dodecacarbonyl Tetrahydride as an Active Intermediate. ChemSusChem, 2011, 4, 1241-1248.	6.8	83
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