

Surya Prakash

List of Publications by Year in descending order

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370
papers

25,606
citations

8159

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10127

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456
all docs

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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. <i>Journal of Organometallic Chemistry</i> , 2022, 965-966, 122331.	0.8	10
2	Nickel and Copper Catalyzed <i>ipso</i> -Phosphonodifluoromethylation of Arylboronic Acids with $\text{BrCF}_2\text{P}(\text{O})(\text{OEt})_2$ for the Synthesis of Phosphonodifluoromethylarenes. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	6
3	Visible Light-Mediated Metal-Free Chlorodifluoromethylation of Arenes and Heteroarenes by a Hypervalent Iodine EDA Complex. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	5
4	Optimization of platinum loading on partially fluorinated carbon catalysts for enhanced proton exchange membrane fuel cell performance. <i>Journal of Power Sources</i> , 2022, 542, 231725.	4.0	7
5	<i>gem</i> -Halofluorocyclopropanes via [2 + 1] Cycloadditions of In Situ Generated CFX Carbene with Alkenes. <i>Organic Letters</i> , 2022, 24, 5417-5421.	2.4	3
6	Ionomer Significance in Alkaline Direct Methanol Fuel Cell to Achieve High Power with a Quaternized Poly(terphenylene) Membrane. <i>ACS Applied Energy Materials</i> , 2021, 4, 5858-5867.	2.5	18
7	Reassessing the Necessity of the Drying Step in Hummer's Method for Graphene Oxide Synthesis. <i>Electroanalysis</i> , 2021, 33, 2323-2334.	1.5	5
8	Chemoselective <i>N</i> - and <i>O</i> -Difluoromethylation of 2-Pyridones, Isoquinolinones, and Quinolinones with TMSCF_2Br . <i>Organic Letters</i> , 2021, 23, 6494-6498.	2.4	18
9	Direct Synthesis of Tri-Difluoromethyl Ketones from Carboxylic Acids by Cross-Coupling with Acyloxyphosphonium Ions. <i>Chemistry - A European Journal</i> , 2021, 27, 15908-15913.	1.7	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. <i>Journal of CO_2 Utilization</i> , 2021, 54, 101762.	3.3	15
12	Tertiary Amine-Ethylene Glycol Based Tandem CO_2 Capture and Hydrogenation to Methanol: Direct Utilization of Post-Combustion CO_2 . <i>ChemSusChem</i> , 2020, 13, 6318-6322.	3.6	30
13	Renewable Methanol Synthesis through Single Step Bi-reforming of Biogas. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10542-10551.	1.8	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. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12520-12526.	7.2	1
15	Protonierung von CH_3N_3 und CF_3N_3 in Supersäuren: Isolierung und strukturelle Charakterisierung von langlebigen Methyl- und Trifluormethylamino-Diazonium-Ionen. <i>Angewandte Chemie</i> , 2020, 132, 12620-12627.	1.6	0
16	Hydroxide Based Integrated CO_2 Capture from Air and Conversion to Methanol. <i>Journal of the American Chemical Society</i> , 2020, 142, 4544-4549.	6.6	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. <i>Organic Letters</i> , 2019, 21, 6255-6258.	2.4	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.	6.6	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.	1.3	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.	7.6	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.	0.7	2
23	Studies on Long-Lived (Pentafluorosulfanyl)phenyl-Substituted Carbocations. <i>Journal of Organic Chemistry</i> , 2019, 84, 11724-11734.	1.7	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.	2.5	37
25	Photochemistry of 2-Nitroarenes: 2-Nitrophenyl- β -trifluoromethyl Carbinols as Synthons for Fluoroorganics. <i>Journal of the American Chemical Society</i> , 2019, 141, 15921-15931.	6.6	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.	2.0	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.	1.0	13
28	Effect of the Cathode Catalyst Layer Thickness on the Performance in Direct Methanol Fuel Cells. <i>Electroanalysis</i> , 2019, 31, 718-725.	1.5	6
29	A One-Pot Synthesis of Platinum Nanoparticles on Electrochemically Exfoliated Graphite. <i>ChemistrySelect</i> , 2019, 4, 4767-4770.	0.7	0
30	Halotrimethylsilane-Nitrite/Nitrate Salts: Efficient and Versatile Reagent System for Diverse Organic Synthetic Transformations. <i>Synlett</i> , 2019, 30, 1037-1047.	1.0	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.	2.4	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.	3.6	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.	3.6	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.	6.6	123
35	Siladifluoromethylation and Deoxo-trifluoromethylation of P ^V -H Compounds with TMSCF ₃ : Route to P ^V -CF ₂ -Transfer Reagents and P ^V -CF ₃ Compounds. <i>Organic Letters</i> , 2019, 21, 1526-1529.	2.4	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.	2.4	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.	0.9	18
38	Direct Difluorination, Hydroxylation, Trifluorination, and C(sp ²)-H Fluorination of Enamides. Organic Letters, 2018, 20, 1042-1045.	2.4	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.	6.6	203
40	Molecular Structure and Crystal Packing of Monofluoromethoxyarenes. European Journal of Organic Chemistry, 2018, 2018, 3724-3734.	1.2	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.	1.3	48
42	Difference and Significance of Regenerative Versus Renewable Carbon Fuels and Products. Topics in Catalysis, 2018, 61, 522-529.	1.3	26
43	Advances in catalytic homogeneous hydrogenation of carbon dioxide to methanol. Journal of CO ₂ Utilization, 2018, 23, 212-218.	3.3	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.	6.6	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.	2.2	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.	3.3	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.	1.5	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.	4.6	24
50	Superelectrophilic Activation of Phenylglyoxamides: Efficient Synthesis of Triarylacetamides and Fluorencarboxamides by Superacid Catalysis. Topics in Catalysis, 2018, 61, 652-663.	1.3	3
51	Regioselective deuteration of alcohols in D ₂ O catalysed by homogeneous manganese and iron pincer complexes. Green Chemistry, 2018, 20, 2706-2710.	4.6	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.	6.6	102
54	Benzodiazines: recent synthetic advances. Chemical Society Reviews, 2017, 46, 3060-3094.	18.7	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. <i>Tetrahedron Letters</i> , 2017, 58, 2842-2845.	0.7	14
56	Remarkable effect of moisture on the CO ₂ adsorption of nano-silica supported linear and branched polyethylenimine. <i>Journal of CO₂ Utilization</i> , 2017, 19, 91-99.	3.3	73
57	Effect of the thickness of the anode electrode catalyst layers on the performance in direct methanol fuel cells. <i>Journal of Power Sources</i> , 2017, 352, 165-173.	4.0	39
58	Selective Late-Stage Hydrodefluorination of Trifluoromethylarenes: A Facile Access to Difluoromethylarenes. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 2322-2326.	1.2	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. <i>Journal of the American Chemical Society</i> , 2017, 139, 566-570.	6.6	26
60	Hydrothermal Preparation, Crystal Chemistry, and Redox Properties of Iron Muscovite Clay. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34024-34032.	4.0	5
61	Manganese-Catalyzed Sequential Hydrogenation of CO ₂ to Methanol via Formamide. <i>ACS Catalysis</i> , 2017, 7, 6347-6351.	5.5	203
62	The Effect of Annealing Temperature on Nickel on Reduced Graphene Oxide Catalysts on Urea Electrooxidation. <i>Electrochimica Acta</i> , 2017, 253, 489-497.	2.6	40
63	Silicon-Based Reagents for Difluoromethylation and Difluoromethylenation Reactions. <i>Synthesis</i> , 2017, 49, 3394-3406.	1.2	63
64	One-Pot Conversion of Methane to Light Olefins or Higher Hydrocarbons through H-SAPO-34-Catalyzed in Situ Halogenation. <i>Journal of the American Chemical Society</i> , 2017, 139, 18078-18083.	6.6	31
65	Cyclopentyl, cyclohexyl, and cycloheptyl cations: computational studies of the structures, stability, ¹³ C NMR chemical shifts, and possible rearrangement pathways. <i>Structural Chemistry</i> , 2017, 28, 317-326.	1.0	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. <i>Journal of Fluorine Chemistry</i> , 2017, 196, 63-66.	0.9	4
67	George Andrew Olah. <i>Resonance</i> , 2017, 22, 1111-1153.	0.2	1
68	Synthesis of Chiral Trifluoromethyl Benzylamines by Heterogeneous Catalytic Reductive Amination. <i>Topics in Catalysis</i> , 2016, 59, 1207-1213.	1.3	11
69	Relevance and Significance of Extraterrestrial Abiological Hydrocarbon Chemistry. <i>Journal of the American Chemical Society</i> , 2016, 138, 6905-6911.	6.6	22
70	Diazo Strategy for the Synthesis of Pyridazines: Pivotal Impact of the Configuration of the Diazo Precursor on the Process. <i>Chemistry - A European Journal</i> , 2016, 22, 174-184.	1.7	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. <i>ACS Catalysis</i> , 2016, 6, 7475-7484.	5.5	75
72	CO ₂ capture by amines in aqueous media and its subsequent conversion to formate with reusable ruthenium and iron catalysts. <i>Green Chemistry</i> , 2016, 18, 5831-5838.	4.6	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.	1.2	62
74	The Nucleophilicity of Persistent $\hat{\text{I}}^{\ominus}$ Monofluoromethide Anions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12845-12849.	7.2	15
75	The Nucleophilicity of Persistent $\hat{\text{I}}^{\ominus}$ Monofluoromethide Anions. <i>Angewandte Chemie</i> , 2016, 128, 13037-13041.	1.6	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.	6.6	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.	6.6	458
78	Electrophilic amination of aromatics with sodium azide in BF ₃ ·H ₂ O. <i>Tetrahedron Letters</i> , 2016, 57, 288-291.	0.7	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.	1.5	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.	3.6	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.	1.7	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.	1.7	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.	2.4	21
84	Paul von RaguÃ© Schleyer (1930-2014). <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2322-2323.	7.2	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.	6.6	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.	4.6	13
87	Direct S-difluoromethylation of thiols using the Ruppert-Prakash reagent. <i>Journal of Fluorine Chemistry</i> , 2015, 180, 186-191.	0.9	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.	0.9	16
89	ipso-Nitrosation of arylboronic acids with chlorotrimethylsilane and sodium nitrite. <i>Tetrahedron Letters</i> , 2014, 55, 1975-1978.	0.7	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.	1.7	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.	2.4	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.	1.4	30
93	Easily Regenerable Solid Adsorbents Based on Polyamines for Carbon Dioxide Capture from the Air. <i>ChemSusChem</i> , 2014, 7, 1386-1397.	3.6	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.	0.9	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.	1.7	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.	4.6	35
97	Recycling of carbon dioxide to methanol and derived products "closing the loop". <i>Chemical Society Reviews</i> , 2014, 43, 7995-8048.	18.7	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.	5.5	72
99	Long-Lived Trifluoromethanide Anion: A Key Intermediate in Nucleophilic Trifluoromethylations. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11575-11578.	7.2	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.	1.5	14
101	Electrochemical CO ₂ Reduction: Recent Advances and Current Trends. <i>Israel Journal of Chemistry</i> , 2014, 54, 1451-1466.	1.0	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.	6.6	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.	6.6	43
104	Bi-reforming of Methane from Any Source with Steam and Carbon Dioxide Exclusively to Metgas (CO ₂ H ₂) for Methanol and Hydrocarbon Synthesis. <i>Journal of the American Chemical Society</i> , 2013, 135, 648-650.	6.6	237
105	Direct Synthesis of Diverse β -Fluoroethylamines by a Multicomponent Protocol. <i>Chemistry - A European Journal</i> , 2013, 19, 3579-3583.	1.7	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.	7.2	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.	4.0	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.	0.9	4

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109	Organoamines-grafted on nano-sized silica for carbon dioxide capture. <i>Journal of CO2 Utilization</i> , 2013, 1, 1-7.	3.3	36
110	Nucleophilic Trifluoromethylation of Carbonyl Compounds: Trifluoroacetaldehyde Hydrate as a Trifluoromethyl Source. <i>Journal of Organic Chemistry</i> , 2013, 78, 3300-3305.	1.7	38
111	Nafion®Fe: A New Efficient "Green" Lewis Acid Catalyst for the Ketonic Strecker Reaction. <i>Catalysis Letters</i> , 2013, 143, 303-312.	1.4	16
112	Synthesis of perimidine and 1,5-benzodiazepine derivatives using tamed Brønsted acid, BF ₃ ·H ₂ O. <i>Journal of Fluorine Chemistry</i> , 2013, 152, 99-105.	0.9	20
113	Two-Stage Synthesis of 3-(Perfluoroalkyl)-Substituted Vinylidiazocarbonyl Compounds and Their Nonfluorinated Counterparts: A Comparative Study. <i>Synthesis</i> , 2013, 45, 1215-1226.	1.2	24
114	Air as the renewable carbon source of the future: an overview of CO ₂ capture from the atmosphere. <i>Energy and Environmental Science</i> , 2012, 5, 7833.	15.6	549
115	Taming of Fluoroform: Direct Nucleophilic Trifluoromethylation of Si, B, S, and C Centers. <i>Science</i> , 2012, 338, 1324-1327.	6.0	262
116	Copper-Mediated Difluoromethylation of (Hetero)aryl Iodides and Styryl Halides with Tributyl(difluoromethyl)stannane. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12090-12094.	7.2	290
117	A Domino Approach of Heck Coupling for the Synthesis of ¹ H-Trifluoromethylstyrenes. <i>Organic Letters</i> , 2012, 14, 1146-1149.	2.4	59
118	Silica Nanoparticles as Supports for Regenerable CO ₂ Sorbents. <i>Energy & Fuels</i> , 2012, 26, 3082-3090.	2.5	82
119	Nafion®Ru: A Sustainable Catalyst for Selective Hydration of Nitriles to Amides. <i>Asian Journal of Organic Chemistry</i> , 2012, 1, 146-149.	1.3	20
120	Efficient synthesis of trifluoromethylated dihydrochalcones, aryl vinyl ketones and indanones by superelectrophilic activation of 4,4,4-trifluoro-3-(trifluoromethyl)crotonic acids. <i>Journal of Fluorine Chemistry</i> , 2012, 143, 292-302.	0.9	20
121	Gallium(III) Triflate: An Efficient and a Sustainable Lewis Acid Catalyst for Organic Synthetic Transformations. <i>Accounts of Chemical Research</i> , 2012, 45, 565-577.	7.6	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. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2163-2171.	2.1	12
123	Enantioselective Synthesis of ¹ H-Stereogenic ¹ H-Keto Esters via Formal Umpolung. <i>Organic Letters</i> , 2012, 14, 3260-3263.	2.4	32
124	Thermocontrolled benzylimine-benzaldimine rearrangement over Nafion-H catalysts for efficient entry into ¹ H-trifluoromethylbenzylamines. <i>Tetrahedron Letters</i> , 2012, 53, 607-611.	0.7	10
125	Facile synthesis of ¹ H-monofluoromethyl alcohols: Nucleophilic monofluoromethylation of aldehydes using TMSCF(SO ₂ Ph) ₂ . <i>Journal of Fluorine Chemistry</i> , 2012, 133, 27-32.	0.9	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. <i>Organic Letters</i> , 2011, 13, 4128-4131.	2.4	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. <i>Journal of the American Chemical Society</i> , 2011, 133, 9992-9995.	6.6	34
128	Anthropogenic Chemical Carbon Cycle for a Sustainable Future. <i>Journal of the American Chemical Society</i> , 2011, 133, 12881-12898.	6.6	1,159
129	A Domino Approach (Hydrolysis/Dehydrohalogenation/Heck Coupling) for the Synthesis of Styrene Sulfonate Salts. <i>Journal of the American Chemical Society</i> , 2011, 133, 2140-2143.	6.6	29
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