

Surya Prakash

List of Publications by Year in descending order

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25,606
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8181

76
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10158

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456
docs citations

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times ranked

17379
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#	ARTICLE	IF	CITATIONS
1	Chemical Recycling of Carbon Dioxide to Methanol and Dimethyl Ether: From Greenhouse Gas to Renewable, Environmentally Carbon Neutral Fuels and Synthetic Hydrocarbons. <i>Journal of Organic Chemistry</i> , 2009, 74, 487-498.	3.2	1,320
2	Anthropogenic Chemical Carbon Cycle for a Sustainable Future. <i>Journal of the American Chemical Society</i> , 2011, 133, 12881-12898.	13.7	1,159
3	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
4	Perfluoroalkylation with Organosilicon Reagents. <i>Chemical Reviews</i> , 1997, 97, 757-786.	47.7	972
5	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.	30.8	549
6	Synthetic methods and reactions. 141. Fluoride-induced trifluoromethylation of carbonyl compounds with trifluoromethyltrimethylsilane (TMS-CF ₃). A trifluoromethide equivalent. <i>Journal of the American Chemical Society</i> , 1989, 111, 393-395.	13.7	500
7	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
8	Carbon Dioxide Capture from the Air Using a Polyamine Based Regenerable Solid Adsorbent. <i>Journal of the American Chemical Society</i> , 2011, 133, 20164-20167.	13.7	428
9	Electrochemical CO ₂ Reduction: Recent Advances and Current Trends. <i>Israel Journal of Chemistry</i> , 2014, 54, 1451-1466.	2.3	356
10	Selective Fluoroalkylations with Fluorinated Sulfones, Sulfoxides, and Sulfides. <i>Accounts of Chemical Research</i> , 2007, 40, 921-930.	15.6	325
11	Perfluorinated Resinsulfonic Acid (Nafion-HA®) Catalysis in Synthesis. <i>Synthesis</i> , 1986, 1986, 513-531.	2.3	306
12	N-Halosuccinimide/BF ₃ ·H ₂ O, Efficient Electrophilic Halogenating Systems for Aromatics. <i>Journal of the American Chemical Society</i> , 2004, 126, 15770-15776.	13.7	303
13	Nucleophilic trifluoromethylation tamed. <i>Journal of Fluorine Chemistry</i> , 2001, 112, 123-131.	1.7	298
14	Copper-Mediated Difluoromethylation of (Hetero)aryl Iodides and Styryl Halides with Tributyl(difluoromethyl)stannane. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12090-12094.	13.8	290
15	Synthesis of <i>gem</i> -Difluorinated Cyclopropanes and Cyclopropenes: Trifluoromethyltrimethylsilane as a Difluorocarbene Source. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7153-7157.	13.8	285
16	Preparation of trifluoromethyl and other perfluoroalkyl compounds with (perfluoroalkyl)trimethylsilanes. <i>Journal of Organic Chemistry</i> , 1991, 56, 984-989.	3.2	269
17	Taming of Fluoroform: Direct Nucleophilic Trifluoromethylation of Si, B, S, and C Centers. <i>Science</i> , 2012, 338, 1324-1327.	12.6	262
18	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.	13.7	237

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19	Nanostructured silica as a support for regenerable high-capacity organoamine-based CO ₂ sorbents. <i>Energy and Environmental Science</i> , 2010, 3, 1949.	30.8	217
20	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
21	Manganese-Catalyzed Sequential Hydrogenation of CO ₂ to Methanol via Formamide. <i>ACS Catalysis</i> , 2017, 7, 6347-6351.	11.2	203
22	Integrative CO ₂ Capture and Hydrogenation to Methanol with Reusable Catalyst and Amine: Toward a Carbon Neutral Methanol Economy. <i>Journal of the American Chemical Society</i> , 2018, 140, 1580-1583.	13.7	203
23	Long-lived cyclopropylcarbinyl cations. <i>Chemical Reviews</i> , 1992, 92, 69-95.	47.7	190
24	Synthetic methods and reactions. 181. Iodination of deactivated aromatics with N-iodosuccinimide in trifluoromethanesulfonic acid (NIS-CF ₃ SO ₃ H) via in situ generated superelectrophilic iodine(I) trifluoromethanesulfonate. <i>Journal of Organic Chemistry</i> , 1993, 58, 3194-3195.	3.2	182
25	Highly Enantioselective Organocatalytic Hydroxyalkylation of Indoles with Ethyl Trifluoropyruvate. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3086-3089.	13.8	177
26	Preparation of Tri- and Difluoromethylsilanes via an Unusual Magnesium Metal-Mediated Reductive Tri- and Difluoromethylation of Chlorosilanes Using Tri- and Difluoromethyl Sulfides, Sulfoxides, and Sulfones. <i>Journal of Organic Chemistry</i> , 2003, 68, 4457-4463.	3.2	168
27	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
28	Stereoselective Nucleophilic Trifluoromethylation of N-(tert-Butylsulfinyl)imines by Using Trimethyl(trifluoromethyl)silane. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 589-590.	13.8	161
29	Preparation of 3,3-Diaryloxindoles by Superacid-Induced Condensations of Isatins and Aromatics with a Combinatorial Approach. <i>Journal of Organic Chemistry</i> , 1998, 63, 4481-4484.	3.2	160
30	Advances in catalytic homogeneous hydrogenation of carbon dioxide to methanol. <i>Journal of CO₂ Utilization</i> , 2018, 23, 212-218.	6.8	154
31	Hydroxide Based Integrated CO ₂ Capture from Air and Conversion to Methanol. <i>Journal of the American Chemical Society</i> , 2020, 142, 4544-4549.	13.7	146
32	Conclusion of the classical-nonclassical ion controversy based on the structural study of the 2-norbornyl cation. <i>Accounts of Chemical Research</i> , 1983, 16, 440-448.	15.6	145
33	Construction of Asymmetric Fluorinated Carbon Centers. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2172-2174.	13.8	139
34	Direct Preparation of Trifluoromethyl Ketones from Carboxylic Esters: Trifluoromethylation with (Trifluoromethyl)trimethylsilane. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 820-821.	13.8	136
35	Easily Regenerable Solid Adsorbents Based on Polyamines for Carbon Dioxide Capture from the Air. <i>ChemSusChem</i> , 2014, 7, 1386-1397.	6.8	133
36	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.	9.0	132

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37	ipso-Nitration of Arylboronic Acids with Chlorotrimethylsilane ⁺ Nitrate Salts. <i>Organic Letters</i> , 2004, 6, 2205-2207.	4.6	130
38	New Electrophilic Difluoromethylating Reagent. <i>Organic Letters</i> , 2007, 9, 1863-1866.	4.6	128
39	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
40	Stereoselective Synthesis of anti-1,2-(Difluoromethyl)-2-amino Alcohols by Boronic Acid Based Three-Component Condensation. Stereoselective Preparation of (2S,3R)-Difluorothreonine. <i>Journal of Organic Chemistry</i> , 2002, 67, 3718-3723.	3.2	124
41	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
42	Long-Lived Trifluoromethanide Anion: A Key Intermediate in Nucleophilic Trifluoromethylations. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11575-11578.	13.8	122
43	Asymmetric Synthesis of Trifluoromethylated Allylic Amines Using 1,2-Unsaturated N-tert-Butanesulfinimines. <i>Organic Letters</i> , 2001, 3, 2847-2850.	4.6	119
44	Stereoselective Synthesis of Trifluoromethylated Vicinal Ethylenediamines with 1,2-Amino N-tert-Butanesulfinimines and TMSCF ₃ . <i>Journal of the American Chemical Society</i> , 2002, 124, 6538-6539.	13.7	116
45	Preparation of and Fluoroalkylation with (Chlorodifluoromethyl)trimethylsilane, Difluorobis(trimethylsilyl)methane, and 1,1,2,2-Tetrafluoro-1,2-bis(trimethylsilyl)ethane. <i>Journal of the American Chemical Society</i> , 1997, 119, 1572-1581.	13.7	115
46	BF ₃ ·H ₂ O Catalyzed Hydroxyalkylation of Aromatics with Aromatic Aldehydes and Dicarboxaldehydes: Efficient Synthesis of Triarylmethanes, Diarylmethylbenzaldehydes, and Anthracene Derivatives. <i>Journal of Organic Chemistry</i> , 2009, 74, 8659-8668.	3.2	112
47	Direct Electrophilic Monofluoromethylation. <i>Organic Letters</i> , 2008, 10, 557-560.	4.6	109
48	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
49	Ionic Liquid and Solid HF Equivalent Amine-Poly(Hydrogen Fluoride) Complexes Effecting Efficient Environmentally Friendly Isobutane ⁺ Isobutylene Alkylation. <i>Journal of the American Chemical Society</i> , 2005, 127, 5964-5969.	13.7	106
50	Efficient Reversible Hydrogen Carrier System Based on Amine Reforming of Methanol. <i>Journal of the American Chemical Society</i> , 2017, 139, 2549-2552.	13.7	102
51	Alkoxide- and Hydroxide-Induced Nucleophilic Trifluoromethylation Using Trifluoromethyl Sulfone or Sulfoxide. <i>Organic Letters</i> , 2003, 5, 3253-3256.	4.6	101
52	Stereoselective Monofluoromethylation of Primary and Secondary Alcohols by Using a Fluorocarbon Nucleophile in a Mitsunobu Reaction. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4933-4936.	13.8	100
53	A Facile Stereocontrolled Synthesis of anti-1,2-(Trifluoromethyl)-2-amino Alcohols. <i>Organic Letters</i> , 2000, 2, 3173-3176.	4.6	96
54	Regioselective Synthesis of Phenols and Halophenols from Arylboronic Acids Using Solid Poly(N-vinylpyrrolidone)/Hydrogen Peroxide and Poly(4-vinylpyridine)/Hydrogen Peroxide Complexes. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1567-1574.	4.3	95

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55	Beyond Oil and Gas. , 2018, , .		94
56	Gallium (III) triflate catalyzed efficient Strecker reaction of ketones and their fluorinated analogs. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3703-3706.	7.1	93
57	High efficiency direct methanol fuel cell based on poly(styrenesulfonic) acid (PSSA)â€“poly(vinylidene) Tj ETQq1 1 0.784314 ggBT /Over	1.7	91
58	Â-Fluoro-Â-nitro(phenylsulfonyl)methane as a fluoromethyl pronucleophile: Efficient stereoselective Michael addition to chalcones. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4090-4094.	7.1	91
59	N,N-Dimethyl-S-difluoromethyl-S-phenylsulfoximinium tetrafluoroborate: A versatile electrophilic difluoromethylating reagent. Journal of Fluorine Chemistry, 2011, 132, 792-798.	1.7	91
60	Stable carbocations. Part 276. Trihalomethyl cations. Journal of the American Chemical Society, 1989, 111, 8020-8021.	13.7	90
61	Stable Carbocations. Angewandte Chemie International Edition in English, 1983, 22, 390-401.	4.4	86
62	Bridgehead adamantyl, diamantyl, and related cations and dications. Journal of the American Chemical Society, 1985, 107, 2764-2772.	13.7	86
63	Superacid-Catalyzed Condensation of Benzaldehyde with Benzene. Study of Protonated Benzaldehydes and the Role of Superelectrophilic Activation. Journal of the American Chemical Society, 1995, 117, 11211-11214.	13.7	86
64	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
65	Mild Preparation of Haloarenes by Ipsi-Substitution of Arylboronic Acids with N-Halosuccinimides. Synlett, 1998, 1998, 141-142.	1.8	84
66	Difluoromethyl Phenyl Sulfone as a Selective Difluoromethylene Dianion Equivalent: One-Pot Stereoselective Synthesis of anti-2,2-Difluoropropane-1,3-diols. Angewandte Chemie - International Edition, 2003, 42, 5216-5219.	13.8	84
67	<i>ipso</i>â€“Nitration of Arenes. Angewandte Chemie - International Edition, 2010, 49, 1726-1728.	13.8	83
68	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
69	Silica Nanoparticles as Supports for Regenerable CO₂ Sorbents. Energy & Fuels, 2012, 26, 3082-3090.	5.1	82
70	Nafion-H Catalysed Intramolecular Friedel-Crafts Acylation: Formation of Cyclic Ketones and Related Heterocycles. Synlett, 1999, 1999, 1067-1068.	1.8	80
71	Trifluoromethanesulfonic Acid Catalyzed Novel Friedelâ€“Crafts Acylation of Aromatics with Methyl Benzoate. Tetrahedron, 2000, 56, 7199-7203.	1.9	80
72	Difluoromethyl Phenyl Sulfone, a Difluoromethylidene Equivalent: Use in the Synthesis of 1,1-Difluoro-1-alkenes. Angewandte Chemie - International Edition, 2004, 43, 5203-5206.	13.8	80

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73	Chlorotrimethylsilane Nitrate Salts as Oxidants: A Direct Oxidative Conversion of Thiols and Disulfides to Sulfonyl Chlorides. <i>Journal of Organic Chemistry</i> , 2007, 72, 5847-5850.	3.2	80
74	Efficient Nucleophilic Fluoromethylation and Subsequent Transformation of Alkyl and Benzyl Halides Using Fluorobis(phenylsulfonyl)methane. <i>Organic Letters</i> , 2009, 11, 1127-1130.	4.6	80
75	Stable carbocations. 210. σ -Bond bridged carbonium ions. 8. The chemistry of protoadamantane. 7. Rapidly equilibrating unsymmetrically bridged 1,3,5,7-tetramethyl- and rapidly equilibrating trivalent 1,2,3,5,7-pentamethyl-2-adamantyl cations. Additivity of carbon-13 NMR chemical shifts relating the classical vs. nonclassical nature of carbocations. <i>Journal of the American Chemical Society</i> , 1980, 102, 683-691.	13.7	79
76	Nucleophilic Trifluoromethylation of <i>N</i> -Tosyl Aldimines. <i>Synlett</i> , 2001, 2001, 0077-0078.	1.8	79
77	A Carbon-Neutral CO ₂ Capture, Conversion, and Utilization Cycle with Low-Temperature Regeneration of Sodium Hydroxide. <i>Journal of the American Chemical Society</i> , 2018, 140, 16873-16876.	13.7	79
78	Facile Synthesis of TMS-Protected Trifluoromethylated Alcohols Using Trifluoromethyltrimethylsilane (TMS-CF ₃) and Various Nucleophilic Catalysts in DMF. <i>Journal of Organic Chemistry</i> , 2006, 71, 6806-6813.	3.2	78
79	Nucleophilic Difluoromethylation of Primary Alkyl Halides Using Difluoromethyl Phenyl Sulfone as a Difluoromethyl Anion Equivalent. <i>Organic Letters</i> , 2004, 6, 4315-4317.	4.6	76
80	Trisilyloxonium Ions: Preparation, NMR Spectroscopy, Ab Initio/IGLO Studies, and Their Role in Cationic Polymerization of Cyclosiloxanes. <i>Journal of the American Chemical Society</i> , 1995, 117, 8962-8966.	13.7	75
81	<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
82	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.	11.2	75
83	Nucleophilic difluoromethylation and difluoromethylenation using bromodifluoromethyl phenyl sulfone. <i>Journal of Fluorine Chemistry</i> , 2005, 126, 1361-1367.	1.7	74
84	Solid superacid-catalyzed organic synthesis. 4. Perfluorinated resinsulfonic acid (Nafion-H) catalyzed Friedel-Crafts benzylation of benzene and substituted benzenes. <i>Journal of Organic Chemistry</i> , 1991, 56, 2089-2091.	3.2	73
85	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.	6.8	73
86	Stable carbocations. 225. Proton and carbon-13 NMR spectroscopic study of 9-fluorenyl cations. <i>Journal of the American Chemical Society</i> , 1980, 102, 4485-4492.	13.7	72
87	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
88	Selective Late-Stage Hydrodefluorination of Trifluoromethylarenes: A Facile Access to Difluoromethylarenes. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 2322-2326.	2.4	71
89	Organic reactions catalyzed by solid superacids. 5. Perfluorinated sulfonic acid resin (Nafion-H) catalyzed intramolecular Friedel-Crafts acylation. <i>Journal of Organic Chemistry</i> , 1991, 56, 3955-3957.	3.2	70
90	Gallium (III) triflate catalyzed dehydration of aldoximes. <i>Catalysis Letters</i> , 2005, 101, 141-143.	2.6	70

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91	Preparation of Tri- and Difluoromethylated Amines from Aldimines Using (Trifluoromethyl)trimethylsilane. <i>Organic Letters</i> , 2006, 8, 3589-3592.	4.6	70
92	Nafion-H catalysed sulfonylation of aromatics with arene/alkenesulfonic acids for the preparation of sulfones. <i>Chemical Communications</i> , 2001, , 1696-1697.	4.1	68
93	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
94	Electrophilic reactions at single bonds. 22. Superacid-catalyzed electrophilic formylation of adamantane with carbon monoxide competing with Koch-Haaf carboxylation. <i>Journal of the American Chemical Society</i> , 1988, 110, 864-867.	13.7	66
95	From Difluoromethyl 2-Pyridyl Sulfone to Difluorinated Sulfonates: A Protocol for Nucleophilic Difluoro(sulfonato)methylation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2559-2563.	13.8	66
96	Stable carbocations. 273. [1.1.1]- and [2.2.1.1]Pagodane dications: frozen two-electron Woodward-Hoffmann transition-state models. <i>Journal of the American Chemical Society</i> , 1988, 110, 7764-7772.	13.7	65
97	Convenient Synthesis of Difluoromethyl Alcohols from Both Enolizable and Non-Enolizable Carbonyl Compounds with Difluoromethyl Phenyl Sulfone. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 2218-2223.	2.4	65
98	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
99	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
100	Title is missing!. <i>Catalysis Letters</i> , 2003, 85, 1-6.	2.6	63
101	Benzodiazines: recent synthetic advances. <i>Chemical Society Reviews</i> , 2017, 46, 3060-3094.	38.1	63
102	Silicon-Based Reagents for Difluoromethylation and Difluoromethylenation Reactions. <i>Synthesis</i> , 2017, 49, 3394-3406.	2.3	63
103	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
104	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
105	Catalysis by solid super acids. 20. Nafion-H catalyzed reductive cleavage of acetals and ketals to ethers with triethylsilane. <i>Journal of Organic Chemistry</i> , 1986, 51, 2826-2828.	3.2	61
106	Onium ions. 24. Oxygen-17 NMR spectroscopic study of oxonium and carboxonium ions. <i>Journal of the American Chemical Society</i> , 1982, 104, 2373-2376.	13.7	60
107	A Domino Approach of Heck Coupling for the Synthesis of ¹² C-Trifluoromethylstyrenes. <i>Organic Letters</i> , 2012, 14, 1146-1149.	4.6	59
108	Efficient One-Pot Synthesis of Fluorinated Benzimidazolines, Benzothiazolines, Benzoxazolines, and Dihydrobenzoxazinones Using Gallium(III) Triflate as a Catalyst. <i>Organic Letters</i> , 2007, 9, 179-182.	4.6	56

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109	Study of operating conditions and cell design on the performance of alkaline anion exchange membrane based direct methanol fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 7967-7972.	7.8	56
110	Preparation of Condensed Aromatics by Superacidic Dehydrative Cyclization of Aryl Pinacols and Epoxides 1a. <i>Journal of Organic Chemistry</i> , 1997, 62, 6666-6671.	3.2	55
111	Stable carbocations. 232. Significant mesomeric nitrenium ion character of the cyanodiphenylmethyl cation. The first long-lived cyanocarbenium ion. <i>Journal of the American Chemical Society</i> , 1980, 102, 6640-6641.	13.7	54
112	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
113	Stable carbocations. Part 236. A carbon-13 and silicon-29 NMR spectroscopic study of .alpha.- and .beta.-(trimethylsilyl)-substituted carbocations. <i>Journal of the American Chemical Society</i> , 1982, 104, 1349-1355.	13.7	53
114	Superacidic Trifluoromethanesulfonic Acid-Induced Cycli-Acyalkylation of Aromatics. <i>Catalysis Letters</i> , 2003, 87, 109-112.	2.6	53
115	Low-temperature carbon-13 nuclear magnetic resonance spectroscopic investigation of C ₄ H ₇ ⁺ . Evidence for an equilibrium involving the nonclassical bicyclobutonium ion and the bisected cyclopropylcarbinyl cation. <i>Journal of the American Chemical Society</i> , 1978, 100, 8016-8018.	13.7	52
116	High-Field ¹ H and ¹³ C NMR Spectroscopic Study of the 2-Norbornyl Cation 1a. <i>Journal of the American Chemical Society</i> , 1982, 104, 7105-7108.	13.7	52
117	Acidity dependence of the trifluoromethanesulfonic acid catalyzed isobutane-isobutylene alkylation modified with trifluoroacetic acid or water. <i>Applied Catalysis A: General</i> , 1996, 146, 107-117.	4.3	51
118	A Persistent $\hat{\pm}$ Fluorocarbanion and Its Analogues: Preparation, Characterization, and Computational Study. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5358-5362.	13.8	50
119	Poly-4-vinylpyridinium Poly(Hydrogen Fluoride): A Solid Hydrogen Fluoride Equivalent Reagent. <i>Synthesis</i> , 1993, 1993, 693-699.	2.3	49
120	Trihalomethyl Cations and Their Superelectrophilic Activation 1. <i>Journal of the American Chemical Society</i> , 1996, 118, 1446-1451.	13.7	49
121	BF ₃ ·2CF ₃ CH ₂ OH (BF ₃ ·2TFE), an Efficient Superacidic Catalyst for Some Organic Synthetic Transformations. <i>Journal of Organic Chemistry</i> , 2006, 71, 3952-3958.	3.2	49
122	Efficient 1,4-addition of $\hat{\pm}$ -substituted fluoro(phenylsulfonyl)methane derivatives to $\hat{\pm}$, $\hat{2}$ -unsaturated compounds. <i>Beilstein Journal of Organic Chemistry</i> , 2008, 4, 17.	2.2	49
123	Nucleophilic difluoromethylation and difluoromethylenation of aldehydes and ketones using diethyl difluoromethylphosphonate. <i>Tetrahedron</i> , 2008, 64, 10977-10985.	1.9	48
124	Nucleophilic Perfluoroalkylation of Imines and Carbonyls: Perfluoroalkyl Sulfones as Efficient Perfluoroalkyl-Transfer Motifs. <i>Organic Letters</i> , 2010, 12, 2932-2935.	4.6	48
125	Advances in Homogeneous Catalysis for Low Temperature Methanol Reforming in the Context of the Methanol Economy. <i>Topics in Catalysis</i> , 2018, 61, 542-559.	2.8	48
126	A potentiometric method of monitoring methanol crossover through polymer electrolyte membranes of direct methanol fuel cells. <i>Journal of Power Sources</i> , 2003, 117, 98-101.	7.8	47

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127	Direct Electrooxidation of Dimethoxymethane, Trimethoxymethane, and Trioxane and Their Application in Fuel Cells. <i>Journal of the Electrochemical Society</i> , 1997, 144, 4195-4201.	2.9	46
128	Facile preparation of di- and monofluoromethyl ketones from trifluoromethyl ketones via fluorinated enol silyl ethers. <i>Journal of Fluorine Chemistry</i> , 2001, 112, 355-360.	1.7	46
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