# Kamal Kumar

List of Publications by Year
in descending order

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|---|---|---|---|
| 90 papers | 5,136 citations | 76294 40 h-index | 91828 69 g-index |
| 138 all docs | 138 docs citations | 138 times ranked | 4468 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Biologyâ€Oriented Synthesis. Angewandte Chemie - International Edition, 2011, 50, 10800-10826. | 7.2 | 438 |
| 2 | Charting, Navigating, and Populating Natural Product Chemical Space for Drug Discovery. Journal of Medicinal Chemistry, 2012, 55, 5989-6001. | 2.9 | 317 |
| 3 | Synthesis of Natural Product Inspired Compound Collections. Angewandte Chemie - International Edition, 2009, 48, 3224-3242. | 7.2 | 272 |
| 4 | The Asymmetric Heteroâ€Dielsâ€“Alder Reaction in the Syntheses of Biologically Relevant Compounds. Angewandte Chemie - International Edition, 2014, 53, 11146-11157. | 7.2 | 194 |
| 5 | Biology-inspired synthesis of compound libraries. Cellular and Molecular Life Sciences, 2008, 65, 1186-1201. | 2.4 | 150 |
| 6 | Scaffold Diversity Synthesis and Its Application in Probe and Drug Discovery. Angewandte Chemie - International Edition, 2016, 55, 7586-7605. | 7.2 | 150 |
| 7 | An efficient catalyst system for diaryl ether synthesis from aryl chlorides. Tetrahedron Letters, 2005, 46, 3237-3240. | 0.7 | 120 |
| 8 | Natural productâ€“inspired cascade synthesis yields modulators of centrosome integrity. Nature Chemical Biology, 2012, 8, 179-184. | 3.9 | 116 |
| 9 | Engaging Alleneâ€Derived Zwitterions in an Unprecedented Mode of Asymmetric [3+2]â€Annulation Reaction. Angewandte Chemie - International Edition, 2016, 55, 9709-9713. | 7.2 | 113 |
| 10 | Odorless substitutes for foul-smelling thiols: syntheses and applications. Tetrahedron Letters, 2001, 42, 9207-9210. | 0.7 | 107 |
| 11 | Unusual [8 + 2] Annelation in the Reactions of Allenic Ester/Ketone-Derived 1,3-Dipoles with Tropone. Organic Letters, 2000, 2, 787-789. | 2.4 | 102 |
| 12 | Asymmetric Synthesis of Natural Product Inspired Tricyclic Benzopyrones by an Organocatalyzed Annulation Reaction. Angewandte Chemie - International Edition, 2008, 47, 6869-6872. | 7.2 | 101 |
| 13 | Ligandâ€Directed Divergent Synthesis of Carboâ€and Heterocyclic Ring Systems. Angewandte Chemie - International Edition, 2018, 57, 5212-5226. | 7.2 | 95 |
| 14 | Annulation Reactions of Allene-Derived 1,3-Dipole with 3-Substituted-Chromones:â€‰ Unusual Recognition of 4Ï€-Component in 3-(N-Aryliminomethyl)chromones through [4 + 3] Annulation. Organic Letters, 2000, 2, 2023-2025. | 2.4 | 93 |
| 15 | Palladium-Catalyzed Carbonylation of Haloindoles:â€‰ No Need for Protecting Groups. Organic Letters, 2004, 6, 7-10. | 2.4 | 90 |
| 16 | Silver catalyzed cascade synthesis of alkaloid ring systems: concise total synthesis of fascaplysin, homofascaplysin C and analogues. Chemical Communications, 2010, 46, 4622. | 2.2 | 86 |
| 17 | Biologically Active Compounds through Catalysis: Efficient Synthesis ofN-(Heteroarylcarbonyl)-Nâ€²-(arylalkyl)piperazines. Chemistry - A European Journal, 2004, 10, 746-757. | 1.7 | 79 |
| 18 | Branching Cascades: A Concise Synthetic Strategy Targeting Diverse and Complex Molecular Frameworks. Angewandte Chemie - International Edition, 2011, 50, 6900-6905. | 7.2 | 78 |

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|---|---|---|---|
| 19 | Discovery of Neuritogenic Compound Classes Inspired by Natural Products. Angewandte Chemie - International Edition, 2013, 52, 9576-9581. | 7.2 | 72 |
| 20 | An Enantioselective Inverseâ€Electronâ€Demand Imino Dielsâ€“Alder Reaction. Angewandte Chemie - International Edition, 2014, 53, 2134-2137. | 7.2 | 72 |
| 21 | Cascade reaction based synthetic strategies targeting biologically intriguing indole polycycles. Organic and Biomolecular Chemistry, 2019, 17, 413-431. | 1.5 | 72 |
| 22 | Gold(III)-Mediated Aldol Condensations Provide Efficient Access to Nitrogen Heterocycles. Organic Letters, 2008, 10, 2159-2162. | 2.4 | 66 |
| 23 | Natural Product-Guided Synthesis of a Spiroacetal Collection Reveals Modulators of Tubulin Cytoskeleton Integrity. European Journal of Organic Chemistry, 2005, 2005, 4773-4788. | 1.2 | 64 |
| 24 | De novo branching cascades for structural and functional diversity in small molecules. Nature Communications, 2015, 6, 6516. | 5.8 | 62 |
| 25 | Natural Product Biosynthesis Inspired Concise and Stereoselective Synthesis of Benzopyrones and Related Scaffolds. Organic Letters, 2011, 13, 1988-1991. | 2.4 | 60 |
| 26 | Discovery of Novel Cinchonaâ€Alkaloidâ€Inspired Oxazatwistane Autophagy Inhibitors. Angewandte Chemie - International Edition, 2017, 56, 2145-2150. | 7.2 | 60 |
| 27 | Synthetic equivalents of benzenethiol and benzyl mercaptan having faint smell: odor reducing effect of trialkylsilyl group. Tetrahedron Letters, 2002, 43, 8569-8573. | 0.7 | 56 |
| 28 | Lewis Base Catalyzed [4+2] Annulation of Electronâ€Deficient Chromoneâ€Derived Heterodienes and Acetylenes. Chemistry - A European Journal, 2011, 17, 5130-5137. | 1.7 | 55 |
| 29 | A ligand-directed divergent catalytic approach to establish structural and functional scaffold diversity. Nature Communications, 2017, 8, 14043. | 5.8 | 55 |
| 30 | Biologyâ€Oriented Synthesis of a Withanolideâ€Inspired Compound Collection Reveals Novel Modulators of Hedgehog Signaling. Angewandte Chemie - International Edition, 2015, 54, 5596-5602. | 7.2 | 52 |
| 31 | Facile, Regioselective [4 + 2] Cycloaddition Involving 1-Aryl-4-phenyl-1-azadienes and Allenic Esters:â€‰ An Efficient Route to Novel Substituted 1-Aryl-4-phenyl-1,4-dihydropyridines. Organic Letters, 2001, 3, 2133-2136. | 2.4 | 51 |
| 32 | A Tunable and Enantioselective Heteroâ€Dielsâ€“Alder Reaction Provides Access to Distinct Piperidinoyl Spirooxindoles. Angewandte Chemie - International Edition, 2017, 56, 15945-15949. | 7.2 | 48 |
| 33 | Neuritogenic Militarinoneâ€Inspired 4â€Hydroxypyridones Target the Stress Pathway Kinase MAP4K4. Angewandte Chemie - International Edition, 2015, 54, 12398-12403. | 7.2 | 45 |
| 34 | Gold(I)â€Catalyzed Synthesis of Benzoxocines by an 8â€endoâ€dig Cyclization. Angewandte Chemie - International Edition, 2011, 50, 9076-9080. | 7.2 | 44 |
| 35 | The natural and synthetic indole weaponry against bacteria. Tetrahedron Letters, 2018, 59, 3223-3233. | 0.7 | 44 |
| 36 | Asymmetric Roadmap to Diverse Polycyclic Benzopyrans via Phosphine-Catalyzed Enantioselective [4 + 2]-Annulation Reaction. Organic Letters, 2016, 18, 2632-2635. | 2.4 | 43 |

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|---|---|---|---|
| 37 | Cascade Syntheses Routes to the Centrocountins. Chemistry - A European Journal, 2013, 19, 2294-2304. | 1.7 | 42 |
| 38 | Reagent-controlled domino synthesis of skeletally-diverse compound collections. Chemical Communications, 2008, , 1211. | 2.2 | 41 |
| 39 | Engaging Alleneâ€Derived Zwitterions in an Unprecedented Mode of Asymmetric [3+2]â€Annulation Reaction. Angewandte Chemie, 2016, 128, 9861-9865. | 1.6 | 41 |
| 40 | A Cyclizationâ€“Rearrangement Cascade for the Synthesis of Structurally Complex Chiral Gold(I)â€“Aminocarbene Complexes. Angewandte Chemie - International Edition, 2014, 53, 8122-8126. | 7.2 | 40 |
| 41 | Exploring and Exploiting Biologically Relevant Chemical Space. Current Drug Targets, 2011, 12, 1531-1546. | 1.0 | 37 |
| 42 | Thermal rearrangements of C-(4-Oxo-4H[1]benzopyran-3-yl)-N-phenylnitrone-a route to novel quinolino[2,3-b]chroman-12-ones. Tetrahedron Letters, 1998, 39, 6547-6550. | 0.7 | 36 |
| 43 | Investigations on Peri-, Regio- and Stereoselectivities in Thermal Cycloadditions Involving C -(4-Oxo-4) Tj ETQq1 1 0.784314 rgBT /Ove<br>1,3-Dipolar Cycloadditions. Tetrahedron, 2000, 56, 7817-7828. | 1.0 | 35 |
| 44 | Development of Odorless Thiols and Sulfides and Their Applications to Organic Synthesis. Monatshefte FÃ¼r Chemie, 2004, 135, 189-200. | 0.9 | 35 |
| 45 | <scp>l</scp>-Isoleucine derived bifunctional phosphine catalyses asymmetric [3 + 2]-annulation of allenyl-esters and -ketones with ketimines. RSC Advances, 2016, 6, 56537-56543. | 1.7 | 35 |
| 46 | The catalysis of intramolecular [4+2] cycloaddition reaction by palladium complexes. Tetrahedron Letters, 1998, 39, 3047-3048. | 0.7 | 34 |
| 47 | Stereoselective Cascade Double-Annulations Provide Diversely Ring-Fused Tetracyclic Benzopyrones. Organic Letters, 2012, 14, 5924-5927. | 2.4 | 34 |
| 48 | A short and efficient synthesis of N-aryl- and N-heteroaryl-Nâ€²-(arylalkyl)piperazines. Tetrahedron Letters, 2004, 45, 2057-2061. | 0.7 | 33 |
| 49 | GerÃ¼stdiversitÃtsbasierte Synthese und ihre Anwendung bei der Sondenâ€•und Wirkstoffsuche. Angewandte Chemie, 2016, 128, 7712-7732. | 1.6 | 33 |
| 50 | Tandem reorganisation of 1,3-dipolar cycloadducts of C-(4-oxo-4H[1]benzopyran-3-yl)-N-phenylnitrone and allenic esters, leading to novel functionalized benzo[b]indolizines. Tetrahedron Letters, 1999, 40, 175-176. | 0.7 | 31 |
| 51 | Domino routes to substituted benzoindolizines: tandem reorganization of 1,3-dipolar cycloadducts of nitrones with allenic esters/ketones and alternative cycloadditionâ€“palladium catalyzed cyclization pathway. Tetrahedron, 2009, 65, 4593-4603. | 1.0 | 28 |
| 52 | A general catalytic reaction sequence to access alkaloid-inspired indole polycycles. Chemical Communications, 2015, 51, 7536-7539. | 2.2 | 28 |
| 53 | A Scaffoldâ€Diversity Synthesis of Biologically Intriguing Cyclic Sulfonamides. Chemistry - A European Journal, 2019, 25, 15498-15503. | 1.7 | 28 |
| 54 | Ligandengesteuerte divergente Synthese von carboâ€•und heterocyclischen Ringsystemen. Angewandte Chemie, 2018, 130, 5308-5322. | 1.6 | 27 |

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|---|---|---|---|
| 55 | Gold(I) Catalyzed Enyne Cycloisomerization â€“ A Roadmap to Privileged Heterocyclic Scaffolds. Israel Journal of Chemistry, 2018, 58, 531-556. | 1.0 | 25 |
| 56 | Divergent Gold(I)â€Catalyzed Skeletal Rearrangements of 1,7â€Enynes. Chemistry - A European Journal, 2015, 21, 13526-13530. | 1.7 | 23 |
| 57 | Discovery of Novel Cinchonaâ€Alkaloidâ€Inspired Oxazatwistane Autophagy Inhibitors. Angewandte Chemie, 2017, 129, 2177-2182. | 1.6 | 21 |
| 58 | Building polycyclic indole scaffolds via gold(I)-catalyzed intra- and inter-molecular cyclization reactions of 1,6-enynes. Tetrahedron, 2016, 72, 3647-3652. | 1.0 | 20 |
| 59 | A Tunable and Enantioselective Heteroâ€Dielsâ€“Alder Reaction Provides Access to Distinct Piperidinoyl Spirooxindoles. Angewandte Chemie, 2017, 129, 16161-16165. | 1.6 | 18 |
| 60 | Neuritogenic Militarinoneâ€Inspired 4â€Hydroxypyridones Target the Stress Pathway Kinase MAP4K4. Angewandte Chemie, 2015, 127, 12575-12580. | 1.6 | 17 |
| 61 | Combined morphological and proteome profiling reveals target-independent impairment of cholesterol homeostasis. Cell Chemical Biology, 2021, 28, 1780-1794.e5. | 2.5 | 17 |
| 62 | A Bioinspired Catalytic Oxygenase Cascade to Generate Complex Oxindoles. Angewandte Chemie - International Edition, 2014, 53, 7514-7518. | 7.2 | 16 |
| 63 | Exploring Natural Product Fragments for Drug and Probe Discovery. Chimia, 2017, 71, 653-660. | 0.3 | 16 |
| 64 | Stereoselective synthesis of a natural product inspired tetrahydroindolo[2,3-a]-quinolizine compound library. Bioorganic and Medicinal Chemistry, 2015, 23, 2614-2620. | 1.4 | 15 |
| 65 | Small Molecules Inspired by the Natural Product Withanolides as Potent Inhibitors of Wnt Signaling. ChemBioChem, 2017, 18, 1797-1806. | 1.3 | 15 |
| 66 | Silver(I)â€Catalyzed Enantioselective [3+2]â€Cycloaddition Reaction of Î±â€Silylimines: A Facile Route to Quaternaryâ€Carbonâ€Rich Scaffolds. Chemistry - A European Journal, 2016, 22, 18373-18377. | 1.7 | 14 |
| 67 | Synthesis of novel electron-deficient chromone-fused dienes via phosphine catalyzed [4+2] annulation. Tetrahedron Letters, 2011, 52, 2265-2267. | 0.7 | 13 |
| 68 | Combined Proteomic and In Silico Target Identification Reveal a Role for 5-Lipoxygenase in Developmental Signaling Pathways. Cell Chemical Biology, 2018, 25, 1095-1106.e23. | 2.5 | 13 |
| 69 | Synthesis of an Iridoid-Inspired Compound Collection and Discovery of Autophagy Inhibitors. Journal of Organic Chemistry, 2016, 81, 10242-10255. | 1.7 | 12 |
| 70 | Photochemistry of Arylidene-Î²-ionones:Â A Highly Efficient Route to Novel Tricyclic Ketones through Intramolecular, Exoselective Photochemical (4 + 2) Cycloadditions, Occurring Only in an Aqueousâ^'Organic Solvent. Journal of Organic Chemistry, 2002, 67, 2234-2240. | 1.7 | 11 |
| 71 | Discovery of Pyrrolidine-2,3-diones as Novel Inhibitors of P. aeruginosa PBP3. Antibiotics, 2021, 10, 529. | 1.5 | 11 |
| 72 | A Facile Dipolar Entry to Diverse Dihydroâ€1â€‰Hâ€1,2,4â€Triazoles. Asian Journal of Organic Chemistry, 2013, 2, 646-649. | 1.3 | 10 |

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|---|---|---|---|
| 73 | Highly Stereoselective Synthesis of a Compound Collection Based on the Bicyclic Scaffolds of Natural Products. Molecules, 2017, 22, 827. | 1.7 | 8 |
| 74 | Gold(I)â€Catalyzed and Nucleophileâ€Guided Ligandâ€Directed Divergent Synthesis. European Journal of Organic Chemistry, 2018, 2018, 5688-5699. | 1.2 | 8 |
| 75 | Unravelling the Synthesis and Chemistry of Stable, Acyclic, and Doubleâ€Deficient 1,3â€Butadienes: An endo â€Selective Dielsâ€“Alder Route to Hedgehog Pathway Inhibitors. Chemistry - A European Journal, 2019, 25, 2717-2722. | 1.7 | 7 |
| 76 | Branching cascades provide access to two amino-oxazoline compound libraries. Bioorganic and Medicinal Chemistry, 2015, 23, 2656-2665. | 1.4 | 6 |
| 77 | Stereoselective Synthesis of Trisubstituted Epoxides Marks the Route to Chiral Building Blocks with Quaternary Centers. European Journal of Organic Chemistry, 2017, 2017, 5660-5665. | 1.2 | 6 |
| 78 | Nature Inspired Small Molecules for Chemical Biology. Israel Journal of Chemistry, 2019, 59, 41-51. | 1.0 | 6 |
| 79 | Efficient and Atom-Economic Synthesis of Î±-Substituted Î²-Chromonyl-Î±,Î²-unsaturated Carbonyls through Molecular Rearrangement. Synlett, 2010, 2010, 403-406. | 1.0 | 5 |
| 80 | Exploring Î±-Chromonyl Nitrones as 1,5-Dipoles. Synlett, 2012, 2012, 227-232. | 1.0 | 4 |
| 81 | Asymmetric Synthesis of 3,3â€²-Piperidinoyl Spirooxindoles and Discovery of Stereospecific Cycloadducts as Novel Hedgehog Pathway Modulators. Synthesis, 2020, 52, 3140-3152. | 1.2 | 3 |
| 82 | Biology Oriented Synthesis and Diversity Oriented Synthesis in Compound Collection Development. , 2008, , 187-209. | | 1 |
| 83 | Scaffold Diversity Synthesis Delivers Complex, Structurally, and Functionally Distinct Tetracyclic Benzopyrones. ChemistryOpen, 2018, 7, 302-309. | 0.9 | 1 |
| 84 | Centrocountinsâ€”synthesis and chemical biology of nature inspired indoloquinolizines. , 2020, , 247-265. | | 1 |
| 85 | Palladium-Catalyzed Carbonylation of Haloindoles: No Need for Protecting Groups.. ChemInform, 2004, 35, no. | 0.1 | 0 |
| 86 | Biologically Active Compounds Through Catalysis: Efficient Synthesis of N-(Heteroarylcarbonyl)-Nâ€²-(arylalkyl)piperazines.. ChemInform, 2004, 35, no. | 0.1 | 0 |
| 87 | A Short and Efficient Synthesis of N-Aryl- and N-Heteroaryl-Nâ€²-(arylalkyl)piperazines.. ChemInform, 2004, 35, no. | 0.1 | 0 |
| 88 | An Efficient Catalyst System for Diaryl Ether Synthesis from Aryl Chloride.. ChemInform, 2005, 36, no. | 0.1 | 0 |
| 89 | Efficient and Atom-Economic Synthesis of Î±-Substituted Î²-Chromonyl-Î±,Î²-unsaturated Carbonyls through Molecular Rearrangement. Synlett, 2010, 2010, 1576-1576. | 1.0 | 0 |
| 90 | Natural Product Inspired Enantioselective Synthesis of Hexahydro-aza-pentalenones. Heterocycles, 2016, 93, 465. | 0.4 | 0 |