# Andrew D Abell

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 278 papers | 6,177 citations | 87843 38 h-index | 138417 58 g-index |
| 284 all docs | 284 docs citations | 284 times ranked | 7235 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 1,2,3â€Triazoles in Peptidomimetic Chemistry. European Journal of Organic Chemistry, 2011, 2011, 2399-2411. | 1.2 | 250 |
| 2 | Detection of gold nanoparticles with different sizes using absorption and fluorescence based method. Sensors and Actuators B: Chemical, 2016, 227, 117-127. | 4.0 | 148 |
| 3 | Inhibition of polysulfide diffusion in lithiumâ€“sulfur batteries: mechanism and improvement strategies. Journal of Materials Chemistry A, 2019, 7, 12381-12413. | 5.2 | 147 |
| 4 | Synthesis of Trisubstituted Imidazoles by Palladium-Catalyzed Cyclization ofO-Pentafluorobenzoylamidoximes:â€‰ Application to Amino Acid Mimetics with a C-Terminal Imidazole. Organic Letters, 2005, 7, 609-611. | 2.4 | 119 |
| 5 | Progress in Solid Polymer Electrolytes for Lithiumâ€Ion Batteries and Beyond. Small, 2022, 18, e2103617. | 5.2 | 107 |
| 6 | Nature engineered diatom biosilica as drug delivery systems. Journal of Controlled Release, 2018, 281, 70-83. | 4.8 | 106 |
| 7 | Estrogenicity of pyrethroid insecticidemetabolites. Journal of Environmental Monitoring, 2006, 8, 197-202. | 2.1 | 100 |
| 8 | Grafting Aryl Diazonium Cations to Polycrystalline Gold:â€‰ Insights into Film Structure Using Gold Oxide Reduction, Redox Probe Electrochemistry, and Contact Angle Behavior. Journal of Physical Chemistry C, 2007, 111, 7808-7815. | 1.5 | 84 |
| 9 | Electrocatalysis of sulfur and polysulfides in Liâ€“S batteries. Journal of Materials Chemistry A, 2020, 8, 19704-19728. | 5.2 | 83 |
| 10 | Double-Layered Modified Separators as Shuttle Suppressing Interlayers for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 541-549. | 4.0 | 74 |
| 11 | How to make lithium iron phosphate better: a review exploring classical modification approaches in-depth and proposing future optimization methods. Journal of Materials Chemistry A, 2016, 4, 18210-18222. | 5.2 | 72 |
| 12 | Azobenzene-Containing, Peptidyl Î±-Ketoesters as Photobiological Switches of Î±-Chymotrypsin. Tetrahedron, 2000, 56, 9763-9771. | 1.0 | 70 |
| 13 | Fluorescence-Based Aluminum Ion Sensing Using a Surface-Functionalized Microstructured Optical Fiber. Langmuir, 2011, 27, 5680-5685. | 1.6 | 69 |
| 14 | Structure, function and selective inhibition of bacterial acetyl-coa carboxylase. Applied Microbiology and Biotechnology, 2012, 93, 983-992. | 1.7 | 68 |
| 15 | Nonesterified Fatty Acid-Induced Endoplasmic Reticulum Stress in Cattle Cumulus Oocyte Complexes Alters Cell Metabolism and Developmental Competence1. Biology of Reproduction, 2016, 94, 23. | 1.2 | 66 |
| 16 | The Synthesis of Naturally Occurring Vitamin K and Vitamin K Analogues. Current Organic Chemistry, 2003, 7, 1625-1634. | 0.9 | 64 |
| 17 | Reversible Photoregulation of Binding of Î±-Chymotrypsin to a Gold Surface. Journal of the American Chemical Society, 2007, 129, 14862-14863. | 6.6 | 64 |
| 18 | Molecular Modeling, Synthesis, and Biological Evaluation of Macrocyclic Calpain Inhibitors. Angewandte Chemie - International Edition, 2009, 48, 1455-1458. | 7.2 | 64 |

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|---|---|---|---|
| 19 | The synthesis and crystal structure of alpha-keto tetrazole-based dipeptide mimics. Tetrahedron Letters, 2001, 42, 5641-5644. | 0.7 | 62 |
| 20 | Calpains: Attractive Targets for the Development of Synthetic Inhibitors. Current Topics in Medicinal Chemistry, 2010, 10, 270-293. | 1.0 | 61 |
| 21 | Electrochemical Activity of Nitrogenâ€Containing Groups in Organic Electrode Materials and Related Improvement Strategies. Advanced Energy Materials, 2021, 11, 2002523. | 10.2 | 59 |
| 22 | Selective inhibition of Biotin Protein Ligase from Staphylococcus aureus. Journal of Biological Chemistry, 2012, 287, 17823-17832. | 1.6 | 56 |
| 23 | Nanoporous Anodic Alumina Photonic Crystals for Optical Chemo- and Biosensing: Fundamentals, Advances, and Perspectives. Nanomaterials, 2018, 8, 788. | 1.9 | 56 |
| 24 | Nanoliter-scale, regenerable ion sensor: sensing with a surface functionalized microstructured optical fibre. RSC Advances, 2013, 3, 8308. | 1.7 | 52 |
| 25 | Synthesis of Cyclic Î²-Amino Acid Esters from Methionine, Allylglycine, and Serine. Journal of Organic Chemistry, 2004, 69, 3375-3382. | 1.7 | 50 |
| 26 | Dual Sensor for Cd(II) and Ca(II): Selective Nanoliter-Scale Sensing of Metal Ions. Analytical Chemistry, 2014, 86, 3268-3272. | 3.2 | 50 |
| 27 | In situ incorporation of a S, N doped carbon/sulfur composite for lithium sulfur batteries. RSC Advances, 2015, 5, 78017-78025. | 1.7 | 50 |
| 28 | Benzophenone- and Indolecarboxylic Acids: Potent Type-2 Specific Inhibitors of Human Steroid 5.alpha.-Reductase. Journal of Medicinal Chemistry, 1995, 38, 13-15. | 2.9 | 46 |
| 29 | Synthesis of Macrocyclic Î²-Strand Templates by Ring Closing Metathesis. Journal of Organic Chemistry, 2009, 74, 4354-4356. | 1.7 | 45 |
| 30 | TheCYP2B6*6Allele Significantly Alters theN-Demethylation of Ketamine Enantiomers In Vitro. Drug Metabolism and Disposition, 2013, 41, 1264-1272. | 1.7 | 45 |
| 31 | New Î²-Strand Templates Constrained by Huisgen Cycloaddition. Organic Letters, 2012, 14, 1330-1333. | 2.4 | 44 |
| 32 | Photopharmacological Control of Cyclic Antimicrobial Peptides. ChemBioChem, 2018, 19, 2591-2597. | 1.3 | 44 |
| 33 | Biotin Analogues with Antibacterial Activity Are Potent Inhibitors of Biotin Protein Ligase. ACS Medicinal Chemistry Letters, 2012, 3, 509-514. | 1.3 | 43 |
| 34 | Investigation into the P3Binding Domain of m-Calpain Using Photoswitchable Diazo- and Triazene-dipeptide Aldehydes:Â New Anticataract Agents. Journal of Medicinal Chemistry, 2007, 50, 2916-2920. | 2.9 | 42 |
| 35 | Synthesis and Properties of Ring-Deactivated Deuterated (Hydroxymethyl)pyrroles. Journal of the American Chemical Society, 1998, 120, 1741-1746. | 6.6 | 40 |
| 36 | New cholesterol esterase inhibitors based on rhodanine and thiazolidinedione scaffolds. Bioorganic and Medicinal Chemistry, 2011, 19, 7453-7463. | 1.4 | 40 |

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| 37 | Redox and antiâ€oxidant state within cattle oocytes following in vitro maturation with bone morphogenetic protein 15 and follicle stimulating hormone. Molecular Reproduction and Development, 2015, 82, 281-294. | 1.0 | 40 |
| 38 | Multiple Ligands in Opioid Research. Protein and Peptide Letters, 2008, 15, 668-682. | 0.4 | 39 |
| 39 | Boronate probes for the detection of hydrogen peroxide release from human spermatozoa. Free Radical Biology and Medicine, 2015, 81, 69-76. | 1.3 | 39 |
| 40 | Photoswitchable Membranes Based on Peptideâ€Modified Nanoporous Anodic Alumina: Toward Smart Membranes for Onâ€Demand Molecular Transport. Advanced Materials, 2015, 27, 3019-3024. | 11.1 | 38 |
| 41 | Optimising in situ click chemistry: the screening and identification of biotin protein ligase inhibitors. Chemical Science, 2013, 4, 3533. | 3.7 | 37 |
| 42 | Unraveling the Interplay of Backbone Rigidity and Electron Rich Side-Chains on Electron Transfer in Peptides: The Realization of Tunable Molecular Wires. Journal of the American Chemical Society, 2014, 136, 12479-12488. | 6.6 | 37 |
| 43 | A Dual Sensor for pH and Hydrogen Peroxide Using Polymer-Coated Optical Fibre Tips. Sensors, 2015, 15, 31904-31913. | 2.1 | 37 |
| 44 | Rationally designed peptide-based inhibitor of AÎ²42 fibril formation and toxicity: a potential therapeutic strategy for Alzheimer's disease. Biochemical Journal, 2020, 477, 2039-2054. | 1.7 | 37 |
| 45 | Synthesis and X-ray Crystallographic Structure of Leucineâ^'Phenylalanyl Succinimide-Based Pseudopeptides. Journal of Organic Chemistry, 1997, 62, 1509-1513. | 1.7 | 36 |
| 46 | Enantioselective Synthesis of Îµ-Fluorinated Îº2-Amino Acids. Organic Letters, 2008, 10, 885-887. | 2.4 | 36 |
| 47 | Electron transfer through Îµ-peptides attached to vertically aligned carbon nanotube arrays: a mechanistic transition. Chemical Communications, 2012, 48, 1132-1134. | 2.2 | 36 |
| 48 | Taming the Light in Microstructured Optical Fibers for Sensing. International Journal of Applied Glass Science, 2015, 6, 229-239. | 1.0 | 35 |
| 49 | Biological hydrogen peroxide detection with aryl boronate and benzil BODIPY-based fluorescent probes. Sensors and Actuators B: Chemical, 2018, 262, 750-757. | 4.0 | 35 |
| 50 | Olefin Metathesis: Catalyst Development, Microwave Catalysis, and Domino Applications. Australian Journal of Chemistry, 2005, 58, 3. | 0.5 | 34 |
| 51 | 5-Benzylidenerhodanine and 5-benzylidene-2-4-thiazolidinedione based antibacterials. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 2720-2722. | 1.0 | 34 |
| 52 | Crowned spiropyran fluoroionophores with a carboxyl moiety for the selective detection of lithium ions. Organic and Biomolecular Chemistry, 2016, 14, 3752-3757. | 1.5 | 33 |
| 53 | Azobenzene-containing photoswitchable proteasome inhibitors with selective activity and cellular toxicity. Bioorganic and Medicinal Chemistry, 2017, 25, 5050-5054. | 1.4 | 33 |
| 54 | Hyperspectral microscopy can detect metabolic heterogeneity within bovine post-compaction embryos incubated under two oxygen concentrations (7% versus 20%). Human Reproduction, 2017, 32, 2016-2025. | 0.4 | 33 |

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| 55 | Inhibition studies on salicylate synthase. Organic and Biomolecular Chemistry, 2005, 3, 1825. | 1.5 | 32 |
| 56 | Structural characterization of Staphylococcus aureus biotin protein ligase and interaction partners: An antibiotic target. Protein Science, 2013, 22, 762-773. | 3.1 | 32 |
| 57 | Microstructured Optical Fiber-based Biosensors: Reversible and Nanoliter-Scale Measurement of Zinc Ions. ACS Applied Materials & Interfaces, 2016, 8, 12727-12732. | 4.0 | 32 |
| 58 | Electrochemical preparation of nano/micron structure transition metal-based catalysts for the oxygen evolution reaction. Materials Horizons, 2022, 9, 1788-1824. | 6.4 | 32 |
| 59 | Synthesis of cyclic acylated enamino ester dipeptide analogs via the bromolactonization of a keto acid phosphorane. Journal of Organic Chemistry, 1993, 58, 14-15. | 1.7 | 31 |
| 60 | Development of Aqueous Metathesis Catalysts. Australian Journal of Chemistry, 2009, 62, 91. | 0.5 | 31 |
| 61 | Structural tailoring of nanoporous anodic alumina optical microcavities for enhanced resonant recirculation of light. Nanoscale, 2018, 10, 14139-14152. | 2.8 | 31 |
| 62 | Synthesis of Substituted Cyclohexenyl-Based Î²-Amino Acids by Ring-Closing Metathesis. Organic Letters, 2002, 4, 3663-3666. | 2.4 | 30 |
| 63 | Photoswitch inhibitors of Î±-chymotrypsinâ€"increased substitution and peptidic character in peptidomimetic boronate esters. Organic and Biomolecular Chemistry, 2006, 4, 3618-3625. | 1.5 | 30 |
| 64 | Microstructured Optical Fibers and Live Cells: A Water-Soluble, Photochromic Zinc Sensor. Biomacromolecules, 2013, 14, 3376-3379. | 2.6 | 30 |
| 65 | Engineering the Slow Photon Effect in Photoactive Nanoporous Anodic Alumina Gradient-Index Filters for Photocatalysis. ACS Applied Materials & Interfaces, 2018, 10, 24124-24136. | 4.0 | 30 |
| 66 | Photocontrol of peptide secondary structure through non-azobenzene photoswitches. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2019, 40, 1-20. | 5.6 | 30 |
| 67 | Synthesis of 1,2-disubstituted pyrroles: A cis peptide bond surrogate. Tetrahedron Letters, 1992, 33, 5831-5832. | 0.7 | 29 |
| 68 | Real-Time Binding Monitoring between Human Blood Proteins and Heavy Metal Ions in Nanoporous Anodic Alumina Photonic Crystals. Analytical Chemistry, 2018, 90, 10039-10048. | 3.2 | 29 |
| 69 | 1,2,3-Triazolyl amino acids as AMPA receptor ligands. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 7512-7515. | 1.0 | 28 |
| 70 | Peptides as Bio-Inspired Electronic Materials: An Electrochemical and First-Principles Perspective. Accounts of Chemical Research, 2018, 51, 2237-2246. | 7.6 | 28 |
| 71 | The Reaction of N-Magnesium Derivatives of Pyrroles with N-Mesylchloromethylpyrroles:Â A Synthesis of Dipyrrylmethanes. Journal of Organic Chemistry, 1998, 63, 8163-8169. | 1.7 | 27 |
| 72 | Improved Photocontrol of Î±â€Chymotrypsin Activity: Peptidomimetic Trifluoromethylketone Photoswitch Enzyme Inhibitors. Chemistry - A European Journal, 2008, 14, 7358-7365. | 1.7 | 27 |

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| 73 | Electrochemistry of Catechol Terminated Monolayers with Cu(II), Ni(II) and Fe(III) Cations: A Model for the Marine Adhesive Interface. Langmuir, 2008, 24, 9074-9081. | 1.6 | 27 |
| 74 | Engineering of Surface Chemistry for Enhanced Sensitivity in Nanoporous Interferometric Sensing Platforms. ACS Applied Materials & Interfaces, 2017, 9, 8929-8940. | 4.0 | 27 |
| 75 | Design and Synthesis of a Conformationally Restricted Trans Peptide Isostere Based on the Bioactive Conformations of Saquinavir and Nelfinavir. Journal of Organic Chemistry, 2001, 66, 3747-3752. | 1.7 | 26 |
| 76 | Synthesis and Extended Activity of Triazoleâ€Containing Macrocyclic Protease Inhibitors. Chemistry - A European Journal, 2013, 19, 7975-7981. | 1.7 | 26 |
| 77 | Macrocyclic Protease Inhibitors with Reduced Peptide Character. Angewandte Chemie - International Edition, 2014, 53, 7828-7831. | 7.2 | 26 |
| 78 | New cylindrical peptide assemblies defined by extended parallel Î²-sheets. Organic and Biomolecular Chemistry, 2013, 11, 425-429. | 1.5 | 25 |
| 79 | Structure Guided Design of Biotin Protein Ligase Inhibitors for Antibiotic Discovery. Current Topics in Medicinal Chemistry, 2013, 14, 4-20. | 1.0 | 25 |
| 80 | A lithium/polysulfide semi-solid rechargeable flow battery with high output performance. RSC Advances, 2014, 4, 47517-47520. | 1.7 | 25 |
| 81 | Ascorbic acid-based inhibitors of Î±-amylases. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 1703-1706. | 1.0 | 24 |
| 82 | Î±-Ketoester-based photobiological switches: synthesis, peptide chain extension and assay against Î±-chymotrypsin. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2441-2444. | 1.0 | 24 |
| 83 | Electrochemical and Computational Studies on Intramolecular Dissociative Electron Transfer in Î²-Peptides. Journal of Physical Chemistry C, 2012, 116, 26608-26617. | 1.5 | 24 |
| 84 | Targeting PCNA with Peptide Mimetics for Therapeutic Purposes. ChemBioChem, 2020, 21, 442-450. | 1.3 | 24 |
| 85 | Harnessing Slow Light in Optoelectronically Engineered Nanoporous Photonic Crystals for Visible Light-Enhanced Photocatalysis. ACS Catalysis, 2021, 11, 12947-12962. | 5.5 | 24 |
| 86 | Dual roles of <scp>F</scp>123 in protein homodimerization and inhibitor binding to biotin protein ligase from <scp>S</scp>taphylococcus aureus. Molecular Microbiology, 2014, 91, 110-120. | 1.2 | 23 |
| 87 | Integrating surface plasmon resonance and slow photon effects in nanoporous anodic alumina photonic crystals for photocatalysis. Catalysis Science and Technology, 2019, 9, 3158-3176. | 2.1 | 23 |
| 88 | Light-confining semiconductor nanoporous anodic alumina optical microcavities for photocatalysis. Journal of Materials Chemistry A, 2019, 7, 22514-22529. | 5.2 | 23 |
| 89 | Rational Management of Photons for Enhanced Photocatalysis in Structurally-Colored Nanoporous Anodic Alumina Photonic Crystals. ACS Applied Energy Materials, 2019, 2, 1169-1184. | 2.5 | 23 |
| 90 | Synthesis and deprotection of [1-(ethoxycarbonyl)-4-[(diphenylmethoxy)carbonyl]-1-methyl-2-oxobutyl]triphenylphosphonium chloride: a key intermediate in the Wittig reaction between a cyclic anhydride and a stabilized ylide. Journal of Organic Chemistry, 1990, 55, 5217-5221. | 1.7 | 22 |

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| 91 | Halogenation of keto acid phosphoranes: synthesis of halo enol lactones and haloallenes. Journal of Organic Chemistry, 1993, 58, 1531-1537. | 1.7 | 22 |
| 92 | Preparative chiral HPLC separation of all possible stereoisomers of LY191704 and LY266111 and their in vitro inhibition of human types 1 and 2 steroid 5Î±-reductases. Bioorganic and Medicinal Chemistry Letters, 1994, 4, 1365-1368. | 1.0 | 22 |
| 93 | A robust and recyclable ruthenium catalyst immobilised on polyethylene glycol. Tetrahedron Letters, 2009, 50, 5340-5343. | 0.7 | 22 |
| 94 | Biotin Protein Ligase Is a Target for New Antibacterials. Antibiotics, 2016, 5, 26. | 1.5 | 22 |
| 95 | Structureâ€“Activity Relationship of 2,4-Dichloro-N-(3,5-dichloro-4-(quinolin-3-yloxy)phenyl)benzenesulfonamide (INT131) Analogs for PPARÎ³-Targeted Antidiabetics. Journal of Medicinal Chemistry, 2017, 60, 4584-4593. | 2.9 | 22 |
| 96 | Halogenation of Biotin Protein Ligase Inhibitors Improves Whole Cell Activity against Staphylococcus aureus. ACS Infectious Diseases, 2018, 4, 175-184. | 1.8 | 22 |
| 97 | Synthesis of Cyclic Acylated Enamino Esters from Enol Lactones, 4-Keto amides, and 5-Hydroxy Lactams. Journal of Organic Chemistry, 1995, 60, 1214-1220. | 1.7 | 21 |
| 98 | Leucine-phenylalanine dipeptide-based N-mesyloxysuccinimides: Synthesis of all four stereoisomers and their assay against serine proteases. Bioorganic and Medicinal Chemistry Letters, 1999, 9, 497-500. | 1.0 | 21 |
| 99 | Progress towards an intramolecular Dielsâ€“Alder ring-expansion approach to taxinine: the interplay of Lewis acids and high pressure. Tetrahedron Letters, 2000, 41, 2723-2727. | 0.7 | 21 |
| 100 | Molecular Modeling: A Search for a Calpain Inhibitor as a New Treatment for Cataractogenesis. Journal of Medicinal Chemistry, 2011, 54, 7503-7522. | 2.9 | 21 |
| 101 | Synthesis and Conformation of Fluorinated Î²â€Peptidic Compounds. Chemistry - A European Journal, 2012, 18, 6655-6662. | 1.7 | 21 |
| 102 | New 26S Proteasome Inhibitors with High Selectivity for Chymotrypsin-Like Activity and p53-Dependent Cytotoxicity. ACS Chemical Biology, 2013, 8, 353-359. | 1.6 | 21 |
| 103 | Al and/or Ni-doped nanomanganese dioxide with anisotropic expansion and their electrochemical characterisation in primary Liâ€“MnO2 batteries. Journal of Solid State Electrochemistry, 2014, 18, 1585-1591. | 1.2 | 21 |
| 104 | Heterocyclic acyl-phosphate bioisostere-based inhibitors of Staphylococcus aureus biotin protein ligase. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4689-4693. | 1.0 | 21 |
| 105 | Light-Confining Nanoporous Anodic Alumina Microcavities by Apodized Stepwise Pulse Anodization. ACS Applied Nano Materials, 2018, 1, 4418-4434. | 2.4 | 21 |
| 106 | Cardiovascular bioimaging of nitric oxide: Achievements, challenges, and the future. Medicinal Research Reviews, 2021, 41, 435-463. | 5.0 | 21 |
| 107 | Synthesis of Functionalized Piperidinones. Journal of Organic Chemistry, 2003, 68, 2432-2436. | 1.7 | 20 |
| 108 | Design and synthesis of aromatic inhibitors of anthranilate synthase. Organic and Biomolecular Chemistry, 2005, 3, 2271. | 1.5 | 20 |

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| 109 | Synthesis, biological evaluation and molecular modelling of N-heterocyclic dipeptide aldehydes as selective calpain inhibitors. Bioorganic and Medicinal Chemistry, 2008, 16, 6911-6923. | 1.4 | 20 |
| 110 | Electrochemistry of Ferrocenoyl Î²-Peptide Monolayers on Gold. Langmuir, 2010, 26, 1334-1339. | 1.6 | 20 |
| 111 | Lithium vanadium phosphate as cathode material for lithium ion batteries. Ionics, 2015, 21, 1201-1239. | 1.2 | 20 |
| 112 | Rationally Designed Probe for Reversible Sensing of Zinc and Application in Cells. ACS Omega, 2017, 2, 6201-6210. | 1.6 | 20 |
| 113 | Photoswitchable peptide-based â€˜on-offâ€™ biosensor for electrochemical detection and control of protein-protein interactions. Biosensors and Bioelectronics, 2018, 118, 188-194. | 5.3 | 20 |
| 114 | A reversible fluoride chemosensor for the development of multi-input molecular logic gates. New Journal of Chemistry, 2019, 43, 12734-12743. | 1.4 | 20 |
| 115 | Realization of high-quality optical nanoporous gradient-index filters by optimal combination of anodization conditions. Nanoscale, 2020, 12, 9404-9415. | 2.8 | 20 |
| 116 | Unique Metal Cation Recognition via Crown Ether-Derivatized Oligo(phenyleneethynylene) Molecular Junction. Journal of Physical Chemistry C, 2020, 124, 8496-8503. | 1.5 | 20 |
| 117 | Succinimide and saccharin-based enzyme-activated inhibitors of serine proteases. Current Pharmaceutical Design, 1999, 5, 405-15. | 0.9 | 20 |
| 118 | Synthesis and X-ray structure of a 1,2,3,6-tetrahydropyridine-based phenylalanine mimetic. Tetrahedron Letters, 1998, 39, 9563-9566. | 0.7 | 19 |
| 119 | An improved large scale procedure for the preparation of N-Cbz amino acids. Tetrahedron Letters, 2011, 52, 1493-1494. | 0.7 | 19 |
| 120 | Improved Synthesis of Biotinol-5â€²-AMP: Implications for Antibacterial Discovery. ACS Medicinal Chemistry Letters, 2015, 6, 216-220. | 1.3 | 19 |
| 121 | Photoswitchable calcium sensor: â€˜Onâ€™â€“â€˜Offâ€™ sensing in cells or with microstructured optical fibers. Sensors and Actuators B: Chemical, 2017, 252, 965-972. | 4.0 | 19 |
| 122 | Nuclear magnetic resonance characterization of 6Î±-chloro-5Î²-cholestane-3Î²,5-diol formed from the reaction of hypochlorous acid with cholesterol. Lipids, 1997, 32, 363-367. | 0.7 | 18 |
| 123 | Ring-deactivated hydroxyalkylpyrrole-based inhibitors of Î±-chymotrypsin: synthesis and mechanism of action. Organic and Biomolecular Chemistry, 2003, 1, 2103-2110. | 1.5 | 18 |
| 124 | Structural Optimization of Photoswitch Ligands for Surface Attachment of Î±â€Chymotrypsin and Regulation of Its Surface Binding. Chemistry - A European Journal, 2010, 16, 6983-6992. | 1.7 | 18 |
| 125 | The Correlation of Electrochemical Measurements and Molecular Junction Conductance Simulations in Î²â€Strand Peptides. Chemistry - A European Journal, 2015, 21, 5926-5933. | 1.7 | 18 |
| 126 | Biosynthetically Guided Structureâ€“Activity Relationship Studies of Merochlorinâ€…A, an Antibiotic Marine Natural Product. ChemMedChem, 2017, 12, 1969-1976. | 1.6 | 18 |

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| 127 | Realâ€Time Probe for the Efficient Sensing of Inorganic Fluoride and Copper Ions in Aqueous Media. ChemistrySelect, 2018, 3, 11593-11600. | 0.7 | 18 |
| 128 | Electrochemical Engineering of Nanoporous Materials for Photocatalysis: Fundamentals, Advances, and Perspectives. Catalysts, 2019, 9, 988. | 1.6 | 18 |
| 129 | Engineering of Broadband Nanoporous Semiconductor Photonic Crystals for Visible-Light-Driven Photocatalysis. ACS Applied Materials & Interfaces, 2020, 12, 57079-57092. | 4.0 | 18 |
| 130 | Synthesis of 5-Phenyl 2-Functionalized Pyrroles by Amino Heck and Tandem Amino Heck Carbonylation Reactions. Australian Journal of Chemistry, 2007, 60, 624. | 0.5 | 17 |
| 131 | New Tripeptideâ€Based Macrocyclic Calpain Inhibitors Formed by Nâ€Alkylation of Histidine. Chemistry and Biodiversity, 2012, 9, 2473-2484. | 1.0 | 17 |
| 132 | Electrochemical Mechanism for FeS2/C Composite in Lithium Ion Batteries with Enhanced Reversible Capacity. Energies, 2016, 9, 225. | 1.6 | 17 |
| 133 | Macrocyclic Peptidomimetics Prepared by Ring-Closing Metathesis and Azideâ€“Alkyne Cycloaddition. Australian Journal of Chemistry, 2017, 70, 138. | 0.5 | 17 |
| 134 | A spiropyran with enhanced fluorescence: A bright, photostable and red-emitting calcium sensor. Tetrahedron, 2018, 74, 1240-1244. | 1.0 | 17 |
| 135 | Development of a Photoswitchable Lithium-Sensitive Probe to Analyze Nonselective Cation Channel Activity in Migrating Cancer Cells. Molecular Pharmacology, 2019, 95, 573-583. | 1.0 | 17 |
| 136 | Spiropyranâ€Based Nanocarrier: A New Zn<sup>2+</sup>â€Responsive Delivery System with Realâ€Time Intracellular Sensing Capabilities. Chemistry - A European Journal, 2019, 25, 854-862. | 1.7 | 17 |
| 137 | Unravelling Structural Dynamics within a Photoswitchable Single Peptide: A Step Towards Multimodal Bioinspired Nanodevices. Angewandte Chemie - International Edition, 2020, 59, 22554-22562. | 7.2 | 17 |
| 138 | Emerging Therapeutic Applications for Fumarates. Trends in Pharmacological Sciences, 2021, 42, 239-254. | 4.0 | 17 |
| 139 | Synthesis of Lactam-Based Peptidomimetics from Î²-Keto Esters and Î²-Keto Amides. Journal of Organic Chemistry, 1999, 64, 9668-9672. | 1.7 | 16 |
| 140 | Cross-metathesis coupling of sugars and fatty acids to lysine and cysteine. Organic and Biomolecular Chemistry, 2004, 2, 2555. | 1.5 | 16 |
| 141 | The Influence of Secondary Structure on Electron Transfer in Peptides. Australian Journal of Chemistry, 2013, 66, 848. | 0.5 | 16 |
| 142 | The effect of a macrocyclic constraint on electron transfer in helical peptides: A step towards tunable molecular wires. Chemical Communications, 2014, 50, 1652. | 2.2 | 16 |
| 143 | Rational Design of a 3<sub>10</sub>â€Helical PIPâ€Box Mimetic Targeting PCNA, the Human Sliding Clamp. Chemistry - A European Journal, 2018, 24, 11325-11331. | 1.7 | 16 |
| 144 | Mechanically Induced Switching between Two Discrete Conductance States: A Potential Single-Molecule Variable Resistor. ACS Applied Materials & Interfaces, 2021, 13, 57646-57653. | 4.0 | 16 |

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| 145 | Voltammetric and Electrochemical Impedance Study of Ferrocenyl Containing Î²-Peptide Monolayers on Gold. Journal of Physical Chemistry C, 2011, 115, 7516-7526. | 1.5 | 15 |
| 146 | Increased redox-active peptide loading on carbon nanotube electrodes. Electrochimica Acta, 2013, 89, 206-211. | 2.6 | 15 |
| 147 | Crystal structure of highly glycosylated human leukocyte elastase in complex with an S2â€² site binding inhibitor. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 480-489. | 0.4 | 15 |
| 148 | A comparison of steroidal and non-steroidal inhibitors of human steroid 5Î±-reductase: New tricyclic aryl acid inhibitors of the type-1 isozyme. Bioorganic and Medicinal Chemistry Letters, 1996, 6, 481-484. | 1.0 | 14 |
| 149 | Nanoporous photonic crystals with tailored surface chemistry for ionic copper sensing. Journal of Materials Chemistry C, 2019, 7, 12278-12289. | 2.7 | 14 |
| 150 | Short Photoswitchable Antibacterial Peptides. ChemMedChem, 2020, 15, 1505-1508. | 1.6 | 14 |
| 151 | Ring closing metathesis of Î±- and Î²-amino acid derived dienes. Journal of Organometallic Chemistry, 2006, 691, 5487-5496. | 0.8 | 13 |
| 152 | Evaluation of a novel calpain inhibitor as a treatment for cataract. Clinical and Experimental Ophthalmology, 2008, 36, 852-860. | 1.3 | 13 |
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