Alan G Marshall

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

158 30,359 423 95 h-index g-index citations papers 32,620 7.21 431 5.4 avg, IF L-index ext. citations ext. papers

| # | Paper | IF | Citations |
|------------------|--|------------------|-----------|
| 423 | Predicting the crossmodal correspondences of odors using an electronic nose <i>Heliyon</i> , 2022 , 8, e09284 | · 3.6 | |
| 422 | Neural correlates of texture perception during active touch Behavioural Brain Research, 2022, 113908 | 3.4 | О |
| 421 | Lessons Learned from a Decade-Long Assessment of Asphaltenes by Ultrahigh-Resolution Mass Spectrometry and Implications for Complex Mixture Analysis. <i>Energy & Energy & Energ</i> | 6 ^{4.1} | 6 |
| 420 | A Network-Adaptive Prediction Algorithm for Haptic Data Under Network Impairments. <i>IEEE Access</i> , 2021 , 9, 52672-52683 | 3.5 | 1 |
| 419 | Tracking Elemental Composition through Hydrotreatment of an Upgraded Pyrolysis Oil Blended with a Light Gas Oil. <i>Energy & Discourt Sensor</i> 2020, 34, 16181-16186 | 4.1 | 4 |
| 418 | Probing Aggregation Tendencies in Asphaltenes by Gel Permeation Chromatography. Part 1: Online Inductively Coupled Plasma Mass Spectrometry and Offline Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Coupled States</i> , 2020, 34, 8308-8315 | 4.1 | 18 |
| 4 1 7 | Detailed chemical composition of an oak biocrude and its hydrotreated product determined by positive atmospheric pressure photoionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2404-2410 | 5.8 | 6 |
| 416 | Top-down proteomics-a near-future technique for clinical diagnosis?. <i>Annals of Translational Medicine</i> , 2020 , 8, 136 | 3.2 | 2 |
| 415 | Advances in Asphaltene Petroleomics. Part 4. Compositional Trends of Solubility Subfractions Reveal that Polyfunctional Oxygen-Containing Compounds Drive Asphaltene Chemistry. <i>Energy & Energy Supply Suppl</i> | 4.1 | 41 |
| 414 | Analysis of non-conjugated steroids in water using paper spray mass spectrometry. <i>Scientific Reports</i> , 2020 , 10, 10698 | 4.9 | 8 |
| 413 | Characterization of an Asphalt Binder and Photoproducts by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Reveals Abundant Water-Soluble Hydrocarbons. <i>Environmental Science & Manager Manager</i> , 2020, 54, 8830-8836 | 10.3 | 12 |
| 412 | Comprehensive Compositional and Structural Comparison of Coal and Petroleum Asphaltenes Based on Extrography Fractionation Coupled with Fourier Transform Ion Cyclotron Resonance MS and MS/MS Analysis. <i>Energy & Fuels</i> , 2020 , 34, 1492-1505 | 4.1 | 19 |
| 411 | Biophysical mass spectrometry for biopharmaceutical process development: focus on hydrogen/deuterium exchange 2020 , 333-374 | | 1 |
| 410 | Probing the Impact of the Knob-into-Hole Mutations on the Structure and Function of a Therapeutic Antibody. <i>Analytical Chemistry</i> , 2020 , 92, 1582-1588 | 7.8 | 2 |
| 409 | Molecular Composition of Photooxidation Products Derived from Sulfur-Containing Compounds Isolated from Petroleum Samples. <i>Energy & Energy & 2020</i> , 34, 14493-14504 | 4.1 | 6 |
| 408 | Molecular Characterization of Photochemically Produced Asphaltenes via Photooxidation of Deasphalted Crude Oils. <i>Energy & Deasphalted Crude Oils</i> . | 4.1 | 12 |
| 407 | Probing Aggregation Tendencies in Asphaltenes by Gel Permeation Chromatography. Part 2: Online Detection by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry and Inductively Coupled Plasma Mass Spectrometry. <i>Energy & Description</i> 2020, 34, 10915-10925 | 4.1 | 20 |

| 406 | Role of Molecular Structure in the Production of Water-Soluble Species by Photo-oxidation of Petroleum. <i>Environmental Science & Environmental Science</i> | 10.3 | 12 |
|-----|--|---------------|----|
| 405 | Interlaboratory Study for Characterizing Monoclonal Antibodies by Top-Down and Middle-Down Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 1783-1802 | 3.5 | 32 |
| 404 | A PERSONAL SCIENTIFIC HISTORY. Mass Spectrometry Reviews, 2020, | 11 | 1 |
| 403 | Molecular-Based Nano-Communication Network: A Ring Topology Nano-Bots for In-Vivo Drug Delivery Systems. <i>IEEE Access</i> , 2019 , 7, 12901-12913 | 3.5 | 2 |
| 402 | Molecular-Level Characterization of Oil-Soluble Ketone/Aldehyde Photo-Oxidation Products by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Reveals Similarity Between Microcosm and Field Samples. <i>Environmental Science & Environmental Science & Environmental</i> | 10.3 | 25 |
| 401 | Combating selective ionization in the high resolution mass spectral characterization of complex mixtures. <i>Faraday Discussions</i> , 2019 , 218, 29-51 | 3.6 | 32 |
| 400 | Characterization of Ketones Formed in the Open System Corrosion Test of Naphthenic Acids by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Description</i> , 2019, 33, 4946-495 | i d .1 | 3 |
| 399 | Modulation Analysis in Macro-Molecular Communications. <i>IEEE Access</i> , 2019 , 7, 11049-11065 | 3.5 | 6 |
| 398 | Diagnosis of Hemoglobinopathy and 町halassemia by 21 Tesla Fourier Transform Ion Cyclotron Resonance Mass Spectrometry and Tandem Mass Spectrometry of Hemoglobin from Blood. <i>Clinical Chemistry</i> , 2019 , 65, 986-994 | 5.5 | 17 |
| 397 | Nanostructure of Gasification Charcoal (Biochar). <i>Environmental Science & Environmental Science & Env</i> | 10.3 | 11 |
| 396 | Position-Based Control of Under-Constrained Haptics: A System for the Dexmo Glove. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 3497-3504 | 4.2 | 2 |
| 395 | Key Generation Based on Large Scale Fading. IEEE Transactions on Vehicular Technology, 2019, 68, 8222- | 8226 | 2 |
| 394 | Design of an Efficient OFDMA-Based Multi-User Key Generation Protocol. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 8842-8852 | 6.8 | 9 |
| 393 | Classification of Plasma Cell Disorders by 21 Tesla Fourier Transform Ion Cyclotron Resonance Top-Down and Middle-Down MS/MS Analysis of Monoclonal Immunoglobulin Light Chains in Human Serum. <i>Analytical Chemistry</i> , 2019 , 91, 3263-3269 | 7.8 | 13 |
| 392 | SDN-Based SYN ProxyA Solution to Enhance Performance of Attack Mitigation Under TCP SYN Flood. <i>Computer Journal</i> , 2019 , 62, 518-534 | 1.3 | 6 |
| 391 | Mechanistic Origins of Enzyme Activation in Human Glucokinase Variants Associated with Congenital Hyperinsulinism. <i>Biochemistry</i> , 2018 , 57, 1632-1639 | 3.2 | 9 |
| 390 | Middle-Down Characterization of the Cell Cycle Dependence of Histone H4 Posttranslational Modifications and Proteoforms. <i>Proteomics</i> , 2018 , 18, e1700442 | 4.8 | 20 |
| 389 | Positive Ion Electrospray Ionization Suppression in Petroleum and Complex Mixtures. <i>Energy & Energy &</i> | 4.1 | 35 |

| 388 | Statistically Significant Differences in Composition of Petroleum Crude Oils Revealed by Volcano Plots Generated from Ultrahigh Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectra. <i>Energy & Discourse Sump</i> ; Fuels, 2018 , 32, 1206-1212 | 4.1 | 21 |
|-----|--|-------------------|----|
| 387 | Linking Natural Oil Seeps from the Gulf of Mexico to Their Origin by Use of Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science & Environmental Science & Environmenta</i> | 4 ^{10.3} | 15 |
| 386 | Security Optimization of Exposure Region-Based Beamforming With a Uniform Circular Array. <i>IEEE Transactions on Communications</i> , 2018 , 66, 2630-2641 | 6.9 | 4 |
| 385 | Protein de novo sequencing by top-down and middle-down MS/MS: Limitations imposed by mass measurement accuracy and gaps in sequence coverage. <i>International Journal of Mass Spectrometry</i> , 2018 , 427, 107-113 | 1.9 | 10 |
| 384 | Channel-Envelope Differencing Eliminates Secret Key Correlation: LoRa-Based Key Generation in Low Power Wide Area Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 12462-12466 | 6.8 | 31 |
| 383 | Spontaneous Calcium-Independent Dimerization of the Isolated First Domain of Neural Cadherin. <i>Biochemistry</i> , 2018 , 57, 6404-6415 | 3.2 | 1 |
| 382 | Experimental Results on the Open-Air Transmission of Macro-Molecular Communication Using Membrane Inlet Mass Spectrometry. <i>IEEE Communications Letters</i> , 2018 , 22, 2567-2570 | 3.8 | 16 |
| 381 | Analysis of Petroleum Products by Gel Permeation Chromatography Coupled Online with Inductively Coupled Plasma Mass Spectrometry and Offline with Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Description</i> 22, 12198-12204 | 4.1 | 20 |
| 380 | Control of Hexamerization, Assembly, and Excluded Strand Specificity for the Sulfolobus solfataricus MCM Helicase. <i>Biochemistry</i> , 2018 , 57, 5672-5682 | 3.2 | 3 |
| 379 | Parameter Analysis in Macro-Scale Molecular Communications Using Advection-Diffusion. <i>IEEE Access</i> , 2018 , 6, 46706-46717 | 3.5 | 17 |
| 378 | A Chemical Alphabet for Macromolecular Communications. <i>Analytical Chemistry</i> , 2018 , 90, 7739-7746 | 7.8 | 20 |
| 377 | Compositional and Structural Analysis of Silica Gel Fractions from Municipal Waste Pyrolysis Oils. <i>Energy & Energy & En</i> | 4.1 | 7 |
| 376 | Design of an OFDM Physical Layer Encryption Scheme. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 2114-2127 | 6.8 | 36 |
| 375 | Functional Isomers in Petroleum Emulsion Interfacial Material Revealed by Ion Mobility Mass Spectrometry and Collision-Induced Dissociation. <i>Energy & Energy & Energ</i> | 4.1 | 25 |
| 374 | Defining Spatial Secrecy Outage Probability for Exposure Region-Based Beamforming. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 900-912 | 9.6 | 9 |
| 373 | Analysis of Monoclonal Antibodies in Human Serum as a Model for Clinical Monoclonal Gammopathy by Use of 21 Tesla FT-ICR Top-Down and Middle-Down MS/MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 827-838 | 3.5 | 39 |
| 372 | A Context-Aware Trust Framework for Resilient Distributed Cooperative Spectrum Sensing in Dynamic Settings. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 9177-9191 | 6.8 | 7 |
| 371 | 126 264 Assigned Chemical Formulas from an Atmospheric Pressure Photoionization 9.4 T Fourier Transform Positive Ion Cyclotron Resonance Mass Spectrum. <i>Analytical Chemistry</i> , 2017 , 89, 11318-113 | 24 ^{.8} | 34 |

| 370 | Pih1p-Tah1p Puts a Lid on Hexameric AAA+ ATPases Rvb1/2p. Structure, 2017, 25, 1519-1529.e4 | 5.2 | 17 |
|-----|--|-----|-----|
| 369 | Method for Isolation and Detection of Ketones Formed from High-Temperature Naphthenic Acid Corrosion. <i>Energy & Description of Corrosion Energy & Description Energy & Description Of Corrosion Energy & Description Of Corrosion Energy & Description Of Corrosion Energy & Description England Energy & Description Energy & D</i> | 4.1 | 7 |
| 368 | Front-End Electron Transfer Dissociation Coupled to a 21 Tesla FT-ICR Mass Spectrometer for Intact Protein Sequence Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1787-1795 | 3.5 | 27 |
| 367 | Molecular Communication over Gas Stream Channels using Portable Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 2371-2383 | 3.5 | 28 |
| 366 | Advanced Chemical Characterization of Pyrolysis Oils from Landfill Waste, Recycled Plastics, and Forestry Residue. <i>Energy & Energy & 2017</i> , 31, 8210-8216 | 4.1 | 24 |
| 365 | Accurate Identification of Unknown and Known Metabolic Mixture Components by Combining 3D NMR with Fourier Transform Ion Cyclotron Resonance Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2017 , 16, 3774-3786 | 5.6 | 16 |
| 364 | The repeat region of cortactin is intrinsically disordered in solution. Scientific Reports, 2017, 7, 16696 | 4.9 | 8 |
| 363 | Ultrahigh-resolution Fourier transform ion cyclotron resonance mass spectrometry and tandem mass spectrometry for peptide de novo amino acid sequencing for a seven-protein mixture by paired single-residue transposed Lys-N and Lys-C digestion. <i>Rapid Communications in Mass</i> | 2.2 | 3 |
| 362 | A fake timing attack against behavioural tests used in embedded IoT M2M communications 2017 , | | 1 |
| 361 | Securing Wireless Communications of the Internet of Things from the Physical Layer, An Overview. <i>Entropy</i> , 2017 , 19, 420 | 2.8 | 35 |
| 360 | Mapping the contact surfaces in the Lamin A:AIMP3 complex by hydrogen/deuterium exchange FT-ICR mass spectrometry. <i>PLoS ONE</i> , 2017 , 12, e0181869 | 3.7 | 4 |
| 359 | Extracting biomolecule collision cross sections from the high-resolution FT-ICR mass spectral linewidths. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 713-7 | 3.6 | 10 |
| 358 | Label-Free Relative Quantitation of Isobaric and Isomeric Human Histone H2A and H2B Variants by Fourier Transform Ion Cyclotron Resonance Top-Down MS/MS. <i>Journal of Proteome Research</i> , 2016 , 15, 3196-203 | 5.6 | 21 |
| 357 | Experimental study on channel reciprocity in wireless key generation 2016 , | | 18 |
| 356 | Trust-Aware Consensus-Inspired Distributed Cooperative Spectrum Sensing for Cognitive Radio Ad Hoc Networks. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2016 , 2, 24-37 | 6.6 | 30 |
| 355 | Quantitative Mass Spectrometry Reveals that Intact Histone H1 Phosphorylations are Variant Specific and Exhibit Single Molecule Hierarchical Dependence. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 818-33 | 7.6 | 25 |
| 354 | Key Generation From Wireless Channels: A Review. <i>IEEE Access</i> , 2016 , 4, 614-626 | 3.5 | 190 |
| 353 | An Improved Protocol for the Password Authenticated Association of IEEE 802.15.6 Standard That Alleviates Computational Burden on the Node. <i>Symmetry</i> , 2016 , 8, 131 | 2.7 | 5 |

| 352 | Screening Petroleum Crude Oils for ARN Tetraprotic Acids with Molecularly Imprinted Polymers. <i>Energy & Discourt Fuels</i> , 2016 , 30, 5651-5655 | 4.1 | 7 |
|-----|--|--------------------|-----|
| 351 | Quantitative Mass Spectrometry Reveals Changes in Histone H2B Variants as Cells Undergo Inorganic Arsenic-Mediated Cellular Transformation. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 2411- | 2 2 .6 | 14 |
| 350 | Chemical Sniffing Instrumentation for Security Applications. <i>Chemical Reviews</i> , 2016 , 116, 8146-72 | 68.1 | 112 |
| 349 | On spatial security outage probability derivation of exposure region based beamforming with randomly located eavesdroppers 2016 , | | 1 |
| 348 | Efficient Key Generation by Exploiting Randomness From Channel Responses of Individual OFDM Subcarriers. <i>IEEE Transactions on Communications</i> , 2016 , 64, 2578-2588 | 6.9 | 62 |
| 347 | DNA Interactions Probed by Hydrogen-Deuterium Exchange (HDX) Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Confirm External Binding Sites on the Minichromosomal Maintenance (MCM) Helicase. <i>Journal of Biological Chemistry</i> , 2016 , 291, 12467-12480 | 5.4 | 14 |
| 346 | Polar Lipid Composition of Biodiesel Algae Candidates Nannochloropsis oculata and Haematococcus pluvialis from Nano Liquid Chromatography Coupled with Negative Electrospray Ionization 14.5 T Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Energy & En</i> | 4.1 | 15 |
| 345 | Large fullerenes in mass spectra. <i>Molecular Physics</i> , 2015 , 113, 2359-2361 | 1.7 | 9 |
| 344 | Isomeric Separation and Structural Characterization of Acids in Petroleum by Ion Mobility Mass Spectrometry. <i>Energy & Double of Separation and Structural Characterization of Acids in Petroleum by Ion Mobility Mass Spectrometry. Energy & Double of Separation and Structural Characterization of Acids in Petroleum by Ion Mobility Mass Spectrometry. <i>Energy & Double of Separation and Structural Characterization of Acids in Petroleum by Ion Mobility Mass Spectrometry. Energy & Double of Separation and Structural Characterization of Acids in Petroleum by Ion Mobility Mass Spectrometry. <i>Energy & Double of Separation and Structural Characterization of Acids in Petroleum by Ion Mobility Mass Spectrometry. Energy & Double of Separation and </i></i></i> | 4.1 | 40 |
| 343 | 21 Tesla Fourier Transform Ion Cyclotron Resonance Mass Spectrometer: A National Resource for Ultrahigh Resolution Mass Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2015 , 26, 16 | 2 8 -32 | 133 |
| 342 | 40 years of Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2015 , 377, 410-420 | 1.9 | 33 |
| 341 | Biophysical Mass Spectrometry for Biopharmaceutical Process Development: Focus on Hydrogen/Deuterium Exchange 2015 , 307-339 | | 3 |
| 340 | An ultrahigh-resolution mass spectrometry index to estimate natural organic matter lability. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 2385-401 | 2.2 | 135 |
| 339 | An effective key generation system using improved channel reciprocity 2015, | | 13 |
| 338 | Robust Consensus-Based Cooperative Spectrum Sensing under Insistent Spectrum Sensing Data Falsification Attacks 2015 , | | 7 |
| 337 | Improved ion optics for introduction of ions into a 9.4-T Fourier transform ion cyclotron resonance mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 280-4 | 2.2 | 7 |
| 336 | Epitope mapping of 7S cashew antigen in complex with antibody by solution-phase H/D exchange monitored by FT-ICR mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 812-9 | 2.2 | 17 |
| 335 | Paired single residue-transposed Lys-N and Lys-C digestions for label-free identification of N-terminal and C-terminal MS/MS peptide product ions: ultrahigh resolution Fourier transform ion cyclotron resonance mass spectrometry and tandem mass spectrometry for peptide de novo | 2.2 | 5 |

| 334 | Single and Multi-metric Trust Management Frameworks for Use in Underwater Autonomous Networks 2015 , | | 2 | |
|-----|--|------|-----|--|
| 333 | The N-terminal Domain of Escherichia coli Assimilatory NADPH-Sulfite Reductase Hemoprotein Is an Oligomerization Domain That Mediates Holoenzyme Assembly. <i>Journal of Biological Chemistry</i> , 2015 , 290, 19319-33 | 5.4 | 9 | |
| 332 | DART Fourier transform ion cyclotron resonance mass spectrometry for analysis of complex organic mixtures. <i>International Journal of Mass Spectrometry</i> , 2015 , 378, 186-192 | 1.9 | 29 | |
| 331 | Alan G. Marshall 2015 , 143-144 | | 1 | |
| 330 | Silver Cationization for Rapid Speciation of Sulfur-Containing Species in Crude Oils by Positive Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Energy Fuels</i> , 2014 , 28, 447-452 | 4.1 | 33 | |
| 329 | Lithium Cationization for Petroleum Analysis by Positive Ion Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Description</i> 2014, 28, 6841-6847 | 4.1 | 20 | |
| 328 | Transmission geometry laser desorption atmospheric pressure photochemical ionization mass spectrometry for analysis of complex organic mixtures. <i>Analytical Chemistry</i> , 2014 , 86, 11151-8 | 7.8 | 6 | |
| 327 | Direct Analysis of Thin-Layer Chromatography Separations of Petroleum Samples by Laser Desorption Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Imaging. <i>Energy & Description of Energy & Description (Control of Energy)) (Control of Energy & Description (Control of Energy)) (Control of Energy)) (Control of Energy) </i> | 4.1 | 23 | |
| 326 | Solid-Phase Extraction Fractionation To Extend the Characterization of Naphthenic Acids in Crude Oil by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Energy & En</i> | 4.1 | 65 | |
| 325 | Targeted Petroleomics: Analytical Investigation of Macondo Well Oil Oxidation Products from Pensacola Beach. <i>Energy & Discourt Sensacola Beach</i> . | 4.1 | 111 | |
| 324 | Insight into the Mechanism of Graphene Oxide Degradation via the Photo-Fenton Reaction. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10519-10529 | 3.8 | 85 | |
| 323 | Unprecedented Ultrahigh Resolution FT-ICR Mass Spectrometry and Parts-Per-Billion Mass Accuracy Enable Direct Characterization of Nickel and Vanadyl Porphyrins in Petroleum from Natural Seeps. <i>Energy & Description</i> 28, 2454-2464 | 4.1 | 75 | |
| 322 | A quantitative evaluation of haptic data prediction techniques over best-effort network 2014, | | 2 | |
| 321 | Bottom-up formation of endohedral mono-metallofullerenes is directed by charge transfer. <i>Nature Communications</i> , 2014 , 5, 5844 | 17.4 | 61 | |
| 320 | Creating secure wireless regions using configurable beamforming 2014, | | 2 | |
| 319 | Secure key generation from OFDM subcarriers' channel responses 2014, | | 14 | |
| 318 | A cooperative spectrum sensing scheme for cognitive radio ad hoc networks based on gossip and trust 2014 , | | 10 | |
| 317 | Rapid screening for potential epitopes reactive with a polycolonal antibody by solution-phase H/D exchange monitored by FT-ICR mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 1016-25 | 3.5 | 19 | |

| 316 | Laserspray and matrix-assisted ionization inlet coupled to high-field FT-ICR mass spectrometry for peptide and protein analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 320-8 | 3.5 | 24 |
|-----|--|--------|-----|
| 315 | Heavy Petroleum Composition. 3. Asphaltene Aggregation. <i>Energy & Description</i> 2013, 27, 1246-1256 | 4.1 | 149 |
| 314 | Expansion of the analytical window for oil spill characterization by ultrahigh resolution mass spectrometry: beyond gas chromatography. <i>Environmental Science & Environmental Science & Environmental</i> | 10.3 | 116 |
| 313 | Tetramethylammonium hydroxide as a reagent for complex mixture analysis by negative ion electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 7803-8 | 7.8 | 23 |
| 312 | Oil spill source identification by principal component analysis of electrospray ionization Fourier transform ion cyclotron resonance mass spectra. <i>Analytical Chemistry</i> , 2013 , 85, 9064-9 | 7.8 | 42 |
| 311 | Structural switch of lysyl-tRNA synthetase between translation and transcription. <i>Molecular Cell</i> , 2013 , 49, 30-42 | 17.6 | 104 |
| 310 | Characterization of IHSS Pony Lake fulvic acid dissolved organic matter by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry and fluorescence spectroscopy. <i>Organic Geochemistry</i> , 2013 , 65, 19-28 | 3.1 | 79 |
| 309 | Heavy Petroleum Composition. 4. Asphaltene Compositional Space. Energy & Composition 27, 1257- | 142.67 | 133 |
| 308 | Top-down structural analysis of an intact monoclonal antibody by electron capture dissociation-Fourier transform ion cyclotron resonance-mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 4239-46 | 7.8 | 94 |
| 307 | Tailored ion radius distribution for increased dynamic range in FT-ICR mass analysis of complex mixtures. <i>Analytical Chemistry</i> , 2013 , 85, 265-72 | 7.8 | 28 |
| 306 | Heavy Petroleum Composition. 5. Compositional and Structural Continuum of Petroleum Revealed. Energy & Energy | 4.1 | 146 |
| 305 | Nucleotide-induced conformational changes of tetradecameric GroEL mapped by H/D exchange monitored by FT-ICR mass spectrometry. <i>Scientific Reports</i> , 2013 , 3, 1247 | 4.9 | 26 |
| 304 | Mass resolution and mass accuracy: how much is enough?. <i>Mass Spectrometry</i> , 2013 , 2, S0009 | 1.7 | 24 |
| 303 | Fourier transform ion cyclotron resonance mass resolution and dynamic range limits calculated by computer modeling of ion cloud motion. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 375-84 | 3.5 | 42 |
| 302 | Baseline correction of absorption-mode Fourier transform ion cyclotron resonance mass spectra. <i>International Journal of Mass Spectrometry</i> , 2012 , 325-327, 67-72 | 1.9 | 35 |
| 301 | Biography and Publications of Eugene Nikolaev. <i>International Journal of Mass Spectrometry</i> , 2012 , 325-327, 3-9 | 1.9 | |
| 300 | Characterization of Pine Pellet and Peanut Hull Pyrolysis Bio-oils by Negative-Ion Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Energy & Energ</i> | 4.1 | 86 |
| 299 | Nano-LC FTICR tandem mass spectrometry for top-down proteomics: routine baseline unit mass resolution of whole cell lysate proteins up to 72 kDa. <i>Analytical Chemistry</i> , 2012 , 84, 2111-7 | 7.8 | 35 |

(2011-2012)

| 298 | Selective ionization of dissolved organic nitrogen by positive ion atmospheric pressure photoionization coupled with Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 5085-90 | 7.8 | 25 |
|-----|--|------|-----|
| 297 | Atmospheric pressure laser-induced acoustic desorption chemical ionization mass spectrometry for analysis of saturated hydrocarbons. <i>Analytical Chemistry</i> , 2012 , 84, 7131-7 | 7.8 | 40 |
| 296 | Compositional space boundaries for organic compounds. <i>Analytical Chemistry</i> , 2012 , 84, 3410-6 | 7.8 | 58 |
| 295 | Identification of Potential Glycoprotein Biomarkers in Estrogen Receptor Positive (ER+) and Negative (ER-) Human Breast Cancer Tissues by LC-LTQ/FT-ICR Mass Spectrometry. <i>Journal of Cancer</i> , 2012 , 3, 269-84 | 4.5 | 14 |
| 294 | Closed network growth of fullerenes. <i>Nature Communications</i> , 2012 , 3, 855 | 17.4 | 127 |
| 293 | Uncovering of a short internal peptide activates a tRNA synthetase procytokine. <i>Journal of Biological Chemistry</i> , 2012 , 287, 20504-8 | 5.4 | 9 |
| 292 | High resolution mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 708-19 | 7.8 | 177 |
| 291 | Improved sequence resolution by global analysis of overlapped peptides in hydrogen/deuterium exchange mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 1202-8 | 3.5 | 29 |
| 290 | Unique domain appended to vertebrate tRNA synthetase is essential for vascular development. <i>Nature Communications</i> , 2012 , 3, 681 | 17.4 | 76 |
| 289 | Analysis and Identification of Biomarkers and Origin of Color in a Bright Blue Crude Oil. <i>Energy & Energy Enels</i> , 2011 , 25, 172-182 | 4.1 | 36 |
| 288 | Electrically compensated Fourier transform ion cyclotron resonance cell for complex mixture mass analysis. <i>Analytical Chemistry</i> , 2011 , 83, 6907-10 | 7.8 | 94 |
| 287 | Differential phosphopeptide expression in a benign breast tissue, and triple-negative primary and metastatic breast cancer tissues from the same African-American woman by LC-LTQ/FT-ICR mass spectrometry. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 412, 127-31 | 3.4 | 9 |
| 286 | Algae Polar Lipids Characterized by Online Liquid Chromatography Coupled with Hybrid Linear Quadrupole Ion Trap/Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Energy & Fuels</i> , 2011 , 25, 4770-4775 | 4.1 | 42 |
| 285 | Predator data station: A fast data acquisition system for advanced FT-ICR MS experiments. <i>International Journal of Mass Spectrometry</i> , 2011 , 306, 246-252 | 1.9 | 186 |
| 284 | Identification of Phosphorylated Human Peptides by Accurate Mass Measurement Alone. <i>International Journal of Mass Spectrometry</i> , 2011 , 308, 357-361 | 1.9 | 5 |
| 283 | Excitation of radial ion motion in an rf-only multipole ion guide immersed in a strong magnetic field gradient. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 591-601 | 3.5 | 11 |
| 282 | A novel 9.4 tesla FTICR mass spectrometer with improved sensitivity, mass resolution, and mass range. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 1343-51 | 3.5 | 182 |
| 281 | Petroleomics: advanced molecular probe for petroleum heavy ends. <i>Journal of Mass Spectrometry</i> , 2011 , 46, 337-43 | 2.2 | 151 |

| 280 | Compositional Boundaries for Fossil Hydrocarbons. <i>Energy & Damp; Fuels</i> , 2011 , 25, 2174-2178 | 4.1 | 88 |
|-----|--|------|-----|
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