

Martin Zehl

List of Publications by Year in descending order

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100
papers

2,855
citations

147566

31
h-index

223531

46
g-index

101
all docs

101
docs citations

101
times ranked

3924
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein Hydrogen Exchange Measured at Single-Residue Resolution by Electron Transfer Dissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 5577-5584.	3.2	204
2	Electron Transfer Dissociation Facilitates the Measurement of Deuterium Incorporation into Selectively Labeled Peptides with Single Residue Resolution. <i>Journal of the American Chemical Society</i> , 2008, 130, 17453-17459.	6.6	158
3	Design of multistable RNA molecules. <i>Rna</i> , 2001, 7, 254-265.	1.6	138
4	Determination of glycopeptide structures by multistage mass spectrometry with low-energy collision-induced dissociation: comparison of electrospray ionization quadrupole ion trap and matrix-assisted laser desorption/ionization quadrupole ion trap reflectron time-of-flight approaches. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1575-1582.	0.7	89
5	Measuring the Hydrogen/Deuterium Exchange of Proteins at High Spatial Resolution by Mass Spectrometry: Overcoming Gas-Phase Hydrogen/Deuterium Scrambling. <i>Accounts of Chemical Research</i> , 2014, 47, 3018-3027.	7.6	81
6	Comparison of toad venoms from different Bufo species by HPLC and LC-DAD-MS/MS. <i>Journal of Ethnopharmacology</i> , 2010, 131, 368-376.	2.0	75
7	Feedback inactivation of D-serine synthesis by NMDA receptor-elicited translocation of serine racemase to the membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7589-7594.	3.3	70
8	Identification and quantification of flavonoids and ellagic acid derivatives in therapeutically important Drosera species by LC-DAD, LC-NMR, NMR, and LC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 2565-2576.	1.9	69
9	Activity-guided isolation of NF- κ B inhibitors and PPAR γ agonists from the root bark of Lycium chinense Miller. <i>Journal of Ethnopharmacology</i> , 2014, 152, 470-477.	2.0	57
10	Structure-Activity Relationship Analysis of Bufadienolide-Induced in Vitro Growth Inhibitory Effects on Mouse and Human Cancer Cells. <i>Journal of Natural Products</i> , 2013, 76, 1078-1084.	1.5	55
11	Identification and Quantification of Coumarins in <i>Peucedanum ostruthium</i> (L.) Koch by HPLC-DAD and HPLC-DAD-MS. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4371-4377.	2.4	54
12	The Impacts of Genistein and Daidzein on Estrogen Conjugations in Human Breast Cancer Cells: A Targeted Metabolomics Approach. <i>Frontiers in Pharmacology</i> , 2017, 8, 699.	1.6	48
13	Influence of Vinegar and Wine Processing on the Alkaloid Content and Composition of the Traditional Chinese Medicine Corydalis Rhizoma (Yanhusuo). <i>Molecules</i> , 2014, 19, 11487-11504.	1.7	47
14	Comparison of CID spectra of singly charged polypeptide antibiotic precursor ions obtained by positive-ion vacuum MALDI IT/TOF and TOF/TOF, AP-MALDI-IT and ESI-IT mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2006, 41, 421-447.	0.7	43
15	LC-NMR, NMR, and LC-MS identification and LC-DAD quantification of flavonoids and ellagic acid derivatives in Drosera peltata. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 932, 111-116.	1.2	42
16	Loss of Ammonia during Electron-Transfer Dissociation of Deuterated Peptides as an Inherent Gauge of Gas-Phase Hydrogen Scrambling. <i>Analytical Chemistry</i> , 2010, 82, 9755-9762.	3.2	40
17	Cytotoxicity of cardiotonic steroids in sensitive and multidrug-resistant leukemia cells and the link with Na ⁺ /K ⁺ -ATPase. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 150, 97-111.	1.2	40
18	Antiparasitic Compounds from Cupania cinerea with Activities against Plasmodium falciparum and Trypanosoma brucei rhodesiense. <i>Journal of Natural Products</i> , 2011, 74, 559-566.	1.5	39

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19	Catechol alkenyls from <i>Semecarpus anacardium</i> : Acetylcholinesterase inhibition and binding mode predictions. <i>Journal of Ethnopharmacology</i> , 2012, 139, 142-148.	2.0	39
20	Hellebrin and its aglycone form hellebrigenin display similar in vitro growth inhibitory effects in cancer cells and binding profiles to the alpha subunits of the Na ⁺ /K ⁺ -ATPase. <i>Molecular Cancer</i> , 2013, 12, 33.	7.9	39
21	<i>Equisetum arvense</i> (common horsetail) modulates the function of inflammatory immunocompetent cells. <i>BMC Complementary and Alternative Medicine</i> , 2014, 14, 283.	3.7	38
22	Anti-Influenza Triterpene Saponins from the Bark of <i>Burkea africana</i> . <i>Journal of Natural Products</i> , 2018, 81, 515-523.	1.5	37
23	Phosphorylation of mouse serine racemase regulates serine synthesis. <i>FEBS Letters</i> , 2010, 584, 2937-2941.	1.3	35
24	The Novel Atypical Dopamine Uptake Inhibitor (S)-CE-123 Partially Reverses the Effort-Related Effects of the Dopamine Depleting Agent Tetrabenazine and Increases Progressive Ratio Responding. <i>Frontiers in Pharmacology</i> , 2019, 10, 682.	1.6	35
25	Instrumental Parameters in the MALDI-TOF Mass Spectrometric Analysis of Quaternary Protein Structures. <i>Analytical Chemistry</i> , 2005, 77, 103-110.	3.2	34
26	Rapid Structural Identification of Cytotoxic Bufadienolide Sulfates in Toad Venom from <i>Bufo melanostictus</i> by LC-DAD-MS and LC-SPE-NMR. <i>Journal of Natural Products</i> , 2010, 73, 603-608.	1.5	34
27	Walnut leaf extract inhibits PTP1B and enhances glucose-uptake in vitro. <i>Journal of Ethnopharmacology</i> , 2014, 152, 599-602.	2.0	34
28	Ferruginenes A ⁺ C from <i>Rhododendron ferrugineum</i> and Their Cytotoxic Evaluation. <i>Journal of Natural Products</i> , 2011, 74, 712-717.	1.5	33
29	Identification of new P-glycoprotein inhibitors derived from cardiogenic steroids. <i>Biochemical Pharmacology</i> , 2015, 93, 11-24.	2.0	33
30	Preparative isolation of oleocanthal, tyrosol, and hydroxytyrosol from olive oil by HPLC. <i>Food Chemistry</i> , 2015, 170, 154-159.	4.2	33
31	Extracts from <i>Leonurus sibiricus</i> L. increase insulin secretion and proliferation of rat INS-1E insulinoma cells. <i>Journal of Ethnopharmacology</i> , 2013, 150, 85-94.	2.0	32
32	Multistage and Tandem Mass Spectrometry of Glycosylated Triterpenoid Saponins Isolated from <i>Bacopa monnieri</i> : Comparison of the Information Content Provided by Different Techniques. <i>Analytical Chemistry</i> , 2007, 79, 8214-8221.	3.2	31
33	The Herbal Drug <i>Melampyrum pratense</i> L. (Koch): Isolation and Identification of Its Bioactive Compounds Targeting Mediators of Inflammation. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013, 2013, 1-10.	0.5	30
34	Simultaneous Analysis of Epoxidized and Hydroperoxidized Triacylglycerols in Canola Oil and Margarine by LC-MS. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 10174-10184.	2.4	30
35	Flavonoids as chemotaxonomic markers in the genus <i>Drosera</i> . <i>Phytochemistry</i> , 2015, 118, 74-82.	1.4	29
36	Flavonoid C- and O-glycosides from the Mongolian medicinal plant <i>Dianthus versicolor</i> Fisch.. <i>Carbohydrate Research</i> , 2011, 346, 1868-1875.	1.1	28

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37	Investigation of sample preparation and instrumental parameters in the matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of noncovalent peptide/peptide complexes. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1931-1940.	0.7	27
38	Traditionally used <i>Veronica officinalis</i> inhibits proinflammatory mediators via the NF- κ B signalling pathway in a human lung cell line. <i>Journal of Ethnopharmacology</i> , 2013, 145, 118-126.	2.0	27
39	Identification of Ostruthin from <i>Peucedanum ostruthium</i> Rhizomes as an Inhibitor of Vascular Smooth Muscle Cell Proliferation. <i>Journal of Natural Products</i> , 2011, 74, 1513-1516.	1.5	26
40	Heterocyclic Analogues of Modafinil as Novel, Atypical Dopamine Transporter Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 9330-9348.	2.9	26
41	<i>Streptomyces</i> spp. From the Marine Sponge <i>Antho dichotoma</i> : Analyses of Secondary Metabolite Biosynthesis Gene Clusters and Some of Their Products. <i>Frontiers in Microbiology</i> , 2020, 11, 437.	1.5	25
42	Allspice and Clove As Source of Triterpene Acids Activating the G Protein-Coupled Bile Acid Receptor TGR5. <i>Frontiers in Pharmacology</i> , 2017, 8, 468.	1.6	24
43	An aqueous birch leaf extract of <i>Betula pendula</i> inhibits the growth and cell division of inflammatory lymphocytes. <i>Journal of Ethnopharmacology</i> , 2011, 136, 444-451.	2.0	23
44	Acetylcholinesterase inhibitors from galbanum, the oleo gum-resin of <i>Ferula gummosa</i> Boiss.. <i>Phytochemistry Letters</i> , 2014, 10, lxxxii-lxxxvii.	0.6	23
45	Structure-Activity Relationships of Novel Thiazole-Based Modafinil Analogues Acting at Monoamine Transporters. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 391-417.	2.9	23
46	Chemoselective Homologation-Deoxygenation Strategy Enabling the Direct Conversion of Carbonyls into $(n+1)$ -Halomethyl-Alkanes. <i>Organic Letters</i> , 2020, 22, 7629-7634.	2.4	23
47	Polyphenol oxidase and enzymatic browning in apricot (<i>Prunus armeniaca</i> L.): Effect on phenolic composition and deduction of main substrates. <i>Current Research in Food Science</i> , 2022, 5, 196-206.	2.7	23
48	Compounds from Gum Ammoniacum with Acetylcholinesterase Inhibitory Activity. <i>Scientia Pharmaceutica</i> , 2013, 81, 793-805.	0.7	22
49	Quantitation of phenylpropanoids and iridoids in insulin-sensitising extracts of <i>Leonurus sibiricus</i> L. (Lamiaceae). <i>Phytochemical Analysis</i> , 2016, 27, 23-31.	1.2	22
50	Characterization of moenomycin antibiotic complex by multistage MALDI-IT/TOF-MS and ESI-IT-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1081-1090.	1.2	21
51	Transfer-messenger RNA controls the translation of cell cycle and stress proteins in <i>Streptomyces</i> . <i>EMBO Reports</i> , 2010, 11, 119-125.	2.0	21
52	GABA _A Receptor Modulators from the Chinese Herbal Drug <i>Junci Medulla</i> - The Pith of <i>Juncus effusus</i> . <i>Planta Medica</i> , 2012, 78, 455-458.	0.7	21
53	Triterpenic Acids from Apple Pomace Enhance the Activity of the Endothelial Nitric Oxide Synthase (eNOS). <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 185-194.	2.4	21
54	Simultaneous quantification of estrogens, their precursors and conjugated metabolites in human breast cancer cells by LC-HRMS without derivatization. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 138, 344-350.	1.4	21

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55	Ultraviolet matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of intact hemoglobin complex from whole human blood. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1932-1938.	0.7	20
56	Extracts from the Mongolian traditional medicinal plants <i>Dianthus versicolor</i> Fisch. and <i>Lilium pumilum</i> Delile stimulate bile flow in an isolated perfused rat liver model. <i>Journal of Ethnopharmacology</i> , 2010, 131, 555-561.	2.0	20
57	Reinstatement of synaptic plasticity in the aging brain through specific dopamine transporter inhibition. <i>Molecular Psychiatry</i> , 2021, 26, 7076-7090.	4.1	19
58	Chitosan-tripolyphosphate nanoparticles as a possible skin drug delivery system for aciclovir with enhanced stability. <i>Journal of Pharmacy and Pharmacology</i> , 2009, 61, 1609-1616.	1.2	19
59	HPTLC Bioautography Guided Isolation of β -Glucosidase Inhibiting Compounds from <i>Justicia secunda</i> Vahl (Acanthaceae). <i>Phytochemical Analysis</i> , 2017, 28, 87-92.	1.2	18
60	Viennamycins: Lipopeptides Produced by a <i>Streptomyces</i> sp.. <i>Journal of Natural Products</i> , 2020, 83, 2381-2389.	1.5	17
61	Mass spectrometric evidence of covalently-bound tetrahydrolipstatin at the catalytic serine of <i>Streptomyces rimosus</i> lipase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 163-170.	1.1	15
62	Cytotoxic Constituents from <i>Lobaria scrobiculata</i> and a Comparison of Two Bioassays for Their Evaluation. <i>Journal of Natural Products</i> , 2014, 77, 1069-1073.	1.5	15
63	Resveratrol Inhibits Key Steps of Steroid Metabolism in a Human Estrogen-Receptor Positive Breast Cancer Model: Impact on Cellular Proliferation. <i>Frontiers in Pharmacology</i> , 2018, 9, 742.	1.6	14
64	<i>Streptomyces</i> spp. From Ethiopia Producing Antimicrobial Compounds: Characterization via Bioassays, Genome Analyses, and Mass Spectrometry. <i>Frontiers in Microbiology</i> , 2018, 9, 1270.	1.5	14
65	Peptide-Targeted Polyplexes for Aerosol-Mediated Gene Delivery to CD49f-Overexpressing Tumor Lesions in Lung. <i>Molecular Therapy - Nucleic Acids</i> , 2019, 18, 774-786.	2.3	14
66	A Novel and Selective Dopamine Transporter Inhibitor, (S)-MK-26, Promotes Hippocampal Synaptic Plasticity and Restores Effort-Related Motivational Dysfunctions. <i>Biomolecules</i> , 2022, 12, 881.	1.8	14
67	Characterization of covalently inhibited extracellular lipase from <i>Streptomyces rimosus</i> by matrix-assisted laser desorption/ionization time-of-flight and matrix-assisted laser desorption/ionization quadrupole ion trap reflectron time-of-flight mass spectrometry: localization of the active site serine. <i>Journal of Mass Spectrometry</i> , 2004, 39, 1474-1483.	0.7	13
68	FBXO22 Protein Is Required for Optimal Synthesis of the N-Methyl-d-Aspartate (NMDA) Receptor Coagonist d-Serine. <i>Journal of Biological Chemistry</i> , 2014, 289, 33904-33915.	1.6	13
69	Lupinalbin A as the most potent estrogen receptor β - and aryl hydrocarbon receptor agonist in <i>Eriosema laurentii</i> de Wild. (Leguminosae). <i>BMC Complementary and Alternative Medicine</i> , 2014, 14, 294.	3.7	13
70	Chemical Composition of <i>Scrophularia lucida</i> and the Effects on Tumor Invasiveness in Vitro. <i>Frontiers in Pharmacology</i> , 2018, 9, 304.	1.6	13
71	Metabolism of Curcumin in Human Breast Cancer Cells: Impact of Sulfation on Cytotoxicity. <i>Planta Medica</i> , 2017, 83, 1028-1034.	0.7	12
72	N, N ² , N ³ -trisubstituted guanidines: Synthesis, characterization and evaluation of their leishmanicidal activity. <i>European Journal of Medicinal Chemistry</i> , 2019, 171, 116-128.	2.6	12

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73	Class IV Lasso Peptides Synergistically Induce Proliferation of Cancer Cells and Sensitize Them to Doxorubicin. <i>IScience</i> , 2020, 23, 101785.	1.9	12
74	A novel heterocyclic compound targeting the dopamine transporter improves performance in the radial arm maze and modulates dopamine receptors D1-D3. <i>Behavioural Brain Research</i> , 2016, 312, 127-137.	1.2	11
75	Secondary metabolites from lichen as potent inhibitors of advanced glycation end products and vasodilative agents. <i>FÄ-toterapÄ-Äc</i> , 2018, 131, 182-188.	1.1	11
76	Structural characterization of extracellular lipase from <i>Streptomyces rimosus</i> : assignment of disulfide bridge pattern by mass spectrometry. <i>Biological Chemistry</i> , 2004, 385, 1147-56.	1.2	10
77	HPLC Determination of Flavonoid Glycosides in Mongolian <i>Dianthus versicolor</i> (Caryophyllaceae) Compared with Quantification by UV Spectrophotometry. <i>Phytochemical Analysis</i> , 2012, 23, 254-259.	1.2	10
78	2-Deprenyl-Rheediaxanthone B Isolated from <i>Metaxya rostrata</i> Induces Active Cell Death in Colorectal Tumor Cells. <i>PLoS ONE</i> , 2013, 8, e65745.	1.1	10
79	Antiplasmodial activity of triterpenes isolated from the methanolic leaf extract of <i>Combretum racemosum</i> P. Beauv. <i>Journal of Ethnopharmacology</i> , 2020, 247, 112203.	2.0	10
80	Endophytic <i>Akanthomyces</i> sp. LN303 from Edelweiss Produces Emestrin and Two New 2-Hydroxy-4 Pyridone Alkaloids. <i>ACS Omega</i> , 2021, 6, 2184-2191.	1.6	10
81	Quantification of flavonoid glycosides in an aqueous extract from the traditional Mongolian medicinal plant <i>Dianthus versicolor</i> FISCH. <i>Journal of Separation Science</i> , 2011, 34, 292-298.	1.3	9
82	Towards Modernization of the Formulation of the Traditional Uighur Medicine Herbal Preparation <i>Abnormal Savda Munziq</i> . <i>Evidence-based Complementary and Alternative Medicine</i> , 2012, 2012, 1-10.	0.5	9
83	Rare phenolic structures found in the aerial parts of <i>Eriosema laurentii</i> De Wild.. <i>Phytochemistry</i> , 2016, 128, 5-11.	1.4	9
84	Lanostane Triterpenes from <i>Gloeophyllum odoratum</i> and Their Anti-Influenza Effects. <i>Planta Medica</i> , 2019, 85, 195-202.	0.7	9
85	Evaluation of Apricot, Bilberry, and Elderberry Pomace Constituents and Their Potential To Enhance the Endothelial Nitric Oxide Synthase (eNOS) Activity. <i>ACS Omega</i> , 2018, 3, 10545-10553.	1.6	8
86	In Vitro Digestion of Grape Seed Oil Inhibits Phospholipid-Regulating Effects of Oxidized Lipids. <i>Biomolecules</i> , 2020, 10, 708.	1.8	8
87	Secundarellone A, B, and C from the leaves of <i>Justicia secunda</i> VAHL. <i>Phytochemistry Letters</i> , 2014, 10, cxxix-cxxxii.	0.6	7
88	Trophosome of the Deep-Sea Tubeworm <i>Riftia pachyptila</i> Inhibits Bacterial Growth. <i>PLoS ONE</i> , 2016, 11, e0146446.	1.1	7
89	Estrogenic properties of spices of the traditional Cameroonian dish <i>nkui</i> in ovariectomized Wistar rats. <i>Journal of Complementary and Integrative Medicine</i> , 2016, 13, 151-162.	0.4	7
90	Biosynthetic Potential of the Endophytic Fungus <i>Helotiales</i> sp. BL73 Revealed via Compound Identification and Genome Mining. <i>Applied and Environmental Microbiology</i> , 2022, 88, aem0251021.	1.4	7

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91	Plant extracts in cell-based anti-inflammatory assaysâ€”Pitfalls and considerations related to removal of activity masking bulk components. <i>Phytochemistry Letters</i> , 2014, 10, xli-xlvii.	0.6	6
92	Effect of Accelerated Aging on the Chemical Signature and Performance of a Multiply-Alkylated Cyclopentane (MAC) Lubricant for Space Applications. <i>Tribology Letters</i> , 2021, 69, 1.	1.2	6
93	A eudesmane-type sesquiterpene isolated from <i>Pluchea odorata</i> (L.) Cass. combats three hallmarks of cancer cells: Unrestricted proliferation, escape from apoptosis and early metastatic outgrowth in vitro. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015, 777, 79-90.	0.4	5
94	Isolation and Characterization of Acetylcholinesterase Inhibitors from <i>Piper longum</i> and Binding Mode Predictions. <i>Planta Medica</i> , 2020, 86, 1118-1124.	0.7	5
95	Coupling of the engineered DNA â€œmutatorâ€•to a biosensor as a new paradigm for activation of silent biosynthetic gene clusters in <i>Streptomyces</i> . <i>Nucleic Acids Research</i> , 2021, 49, 8396-8405.	6.5	5
96	Selective anticancer activity of the novel thiobenzanilide 63T against human lung adenocarcinoma cells. <i>Toxicology in Vitro</i> , 2016, 37, 148-161.	1.1	4
97	Isolation of eudesmanes from <i>Pluchea odorata</i> and evaluation of their effects on cancer cell growth and tumor invasiveness in vitro. <i>Phytochemistry</i> , 2017, 141, 37-47.	1.4	4
98	Acetylated Furostene Glycosides from <i>Solanum gilo</i> Fruits. <i>Planta Medica</i> , 2017, 83, 1227-1232.	0.7	4
99	New flavonoids from the underground parts of <i>Eriosema laurentii</i> . <i>Phytochemistry Letters</i> , 2016, 18, 144-149.	0.6	3
100	Synthesis and dopamine receptor binding of dihydrexidine and SKF 38393 catecholamine-based analogues. <i>Amino Acids</i> , 2021, , 1.	1.2	0