

Emirhan Nemutlu

List of Publications by Year in descending order

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102
papers

1,833
citations

331670

21
h-index

315739

38
g-index

104
all docs

104
docs citations

104
times ranked

2353
citing authors

#	ARTICLE	IF	CITATIONS
1	Defects in Mitochondrial Dynamics and Metabolomic Signatures of Evolving Energetic Stress in Mouse Models of Familial Alzheimer's Disease. <i>PLoS ONE</i> , 2012, 7, e32737.	2.5	225
2	Integration of GC-MS and LC-MS for untargeted metabolomics profiling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 190, 113509.	2.8	156
3	Improved determination of quinolones in milk at their MRL levels using LC-UV, LC-FD, LC-MS and LC-MS/MS and validation in line with regulation 2002/657/EC. <i>Analytica Chimica Acta</i> , 2008, 613, 98-107.	5.4	122
4	Modulation of Mitochondrial Complex I Activity Averts Cognitive Decline in Multiple Animal Models of Familial Alzheimer's Disease. <i>EBioMedicine</i> , 2015, 2, 294-305.	6.1	87
5	Simultaneous multiresponse optimization of an HPLC method to separate seven cephalosporins in plasma and amniotic fluid: Application to validation and quantification of cefepime, cefixime and cefoperazone. <i>Talanta</i> , 2009, 80, 117-126.	5.5	74
6	Untargeted multi-omic analysis of colorectal cancer-specific exosomes reveals joint pathways of colorectal cancer in both clinical samples and cell culture. <i>Cancer Letters</i> , 2020, 469, 186-194.	7.2	57
7	Cardiac Resynchronization Therapy Induces Adaptive Metabolic Transitions in the Metabolomic Profile of Heart Failure. <i>Journal of Cardiac Failure</i> , 2015, 21, 460-469.	1.7	55
8	Rearrangement of energetic and substrate utilization networks compensate for chronic myocardial creatine kinase deficiency. <i>Journal of Physiology</i> , 2011, 589, 5193-5211.	2.9	53
9	Profile of Circulatory Metabolites in an Animal Model of Multiple Sclerosis using Global Metabolomics. <i>Journal of Clinical & Cellular Immunology</i> , 2013, 04, .	1.5	48
10	Simultaneous Separation and Determination of Seven Quinolones Using HPLC: Analysis of Levofloxacin and Moxifloxacin in Plasma and Amniotic Fluid. <i>Chromatographia</i> , 2007, 66, 15-24.	1.3	45
11	Method development and validation for the analysis of meloxicam in tablets by CZE. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 31, 393-400.	2.8	43
12	Sensor-based MIP technologies for targeted metabolomics analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 146, 116487.	11.4	39
13	Partial inhibition of mitochondrial complex I ameliorates Alzheimer's disease pathology and cognition in APP/PS1 female mice. <i>Communications Biology</i> , 2021, 4, 61.	4.4	35
14	Dynamic phosphometabolomic profiling of human tissues and transgenic models by ¹⁸ O-assisted ³¹ P NMR and mass spectrometry. <i>Physiological Genomics</i> , 2012, 44, 386-402.	2.3	34
15	A stability indicating RP-HPLC method for determination of the COVID-19 drug molnupiravir applied using nanoformulations in permeability studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 214, 114693.	2.8	32
16	Polarographic behaviour of meloxicam and its determination in tablet preparations and spiked plasma. <i>Il Farmaco</i> , 2002, 57, 463-468.	0.9	30
17	Comparative assessment of dermal wound healing potentials of various <i>Trifolium L.</i> extracts and determination of their isoflavone contents as potential active ingredients. <i>Journal of Ethnopharmacology</i> , 2013, 148, 423-432.	4.1	30
18	Metabolomics and proteomics profiles of some medicinal plants and correlation with BDNF activity. <i>Phytomedicine</i> , 2020, 74, 152920.	5.3	27

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19	18O-assisted dynamic metabolomics for individualized diagnostics and treatment of human diseases. Croatian Medical Journal, 2012, 53, 529-534.	0.7	26
20	Determination of magnesium, calcium, sodium, and potassium in blood plasma samples by capillary zone electrophoresis. Analytical and Bioanalytical Chemistry, 2005, 383, 833-838.	3.7	25
21	Human bone marrow mesenchymal stem cells secrete endocannabinoids that stimulate in vitro hematopoietic stem cell migration effectively comparable to beta-adrenergic stimulation. Experimental Hematology, 2018, 57, 30-41.e1.	0.4	24
22	Multiresidue determination of quinolones regulated by the European Union in bovine and porcine plasma. Application of chromatographic and capillary electrophoretic methodologies. Biomedical Chromatography, 2011, 25, 555-569.	1.7	22
23	Validation of a rapid micellar electrokinetic capillary chromatographic method for the simultaneous determination of isoniazid and pyridoxine hydrochloride in pharmaceutical formulation. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 854, 35-42.	2.3	20
24	Altered metabolomic profile of dual-species biofilm: Interactions between Proteus mirabilis and Candida albicans. Microbiological Research, 2020, 230, 126346.	5.3	20
25	ACPA decreases non-small cell lung cancer line growth through Akt/PI3K and JNK pathways in vitro. Cell Death and Disease, 2021, 12, 56.	6.3	19
26	Metabolic Infrastructure of Pregnant Women With Trisomy 21 Fetuses; Metabolomic Analysis. Zeitschrift Fur Geburtshilfe Und Neonatologie, 2019, 223, 297-303.	0.4	18
27	Maternal blood and amniotic fluid levels of moxifloxacin, levofloxacin and cefixime. Journal of Obstetrics and Gynaecology Research, 2010, 36, 484-487.	1.3	17
28	Composite nanofibers incorporating alpha lipoic acid and atorvastatin provide neuroprotection after peripheral nerve injury in rats. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 153, 1-13.	4.3	17
29	Development of oral aprepitant-loaded chitosan-polyethylene glycol-coated cyclodextrin nanocapsules: formulation, characterization, and pharmacokinetic evaluation. Journal of Pharmaceutical Investigation, 2021, 51, 297-310.	5.3	17
30	Decline of Phosphotransfer and Substrate Supply Metabolic Circuits Hinders ATP Cycling in Aging Myocardium. PLoS ONE, 2015, 10, e0136556.	2.5	15
31	A new perspective on evaluation of medicinal plant biological activities: The correlation between phytomics and matrix metalloproteinases activities of some medicinal plants. Saudi Pharmaceutical Journal, 2019, 27, 446-452.	2.7	15
32	Determination of lornoxicam in pharmaceutical preparations by zero and first order derivative UV spectrophotometric methods. Die Pharmazie, 2005, 60, 421-5.	0.5	15
33	Decellularized spinal cord meninges extracellular matrix hydrogel that supports neurogenic differentiation and vascular structure formation. Journal of Tissue Engineering and Regenerative Medicine, 2021, 15, 948-963.	2.7	14
34	Intranasal metformin treatment ameliorates cognitive functions via insulin signaling pathway in ICV-STZ-induced mice model of Alzheimer's disease. Life Sciences, 2022, 299, 120538.	4.3	14
35	Electron spray ionization mass spectrometry and 2D 31P NMR for monitoring 18O/16O isotope exchange and turnover rates of metabolic oligophosphates. Analytical and Bioanalytical Chemistry, 2012, 403, 697-706.	3.7	13
36	Dual release behavior of atorvastatin and alpha-lipoic acid from PLGA microspheres for the combination therapy in peripheral nerve injury. Journal of Drug Delivery Science and Technology, 2017, 39, 455-466.	3.0	13

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37	Mechanically robust hybrid hydrogels of photo-crosslinkable gelatin and laminin-mimetic peptide amphiphiles for neural induction. <i>Biomaterials Science</i> , 2021, 9, 8270-8284.	5.4	13
38	A Quadruped Study on Chitosan Microspheres Containing Atorvastatin Calcium: Preparation, Characterization, Quantification and <i>&lt;i>in-Vivo&/i></i> ; Application. <i>Chemical and Pharmaceutical Bulletin</i> , 2010, 58, 1161-1167.	1.3	12
39	The effects of fatty acid amide hydrolase and monoacylglycerol lipase inhibitor treatments on lipopolysaccharide-induced airway inflammation in mice. <i>Pulmonary Pharmacology and Therapeutics</i> , 2020, 62, 101920.	2.6	12
40	³¹ P NMR correlation maps of ¹⁸ O/ ¹⁶ O chemical shift isotopic effects for phosphometabolite labeling studies. <i>Journal of Biomolecular NMR</i> , 2011, 50, 237-245.	2.8	11
41	Determination of rofecoxib, in the presence of its photodegradation product, in pharmaceutical preparations by micellar electrokinetic capillary chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 504-509.	3.7	10
42	Determination of sertaconazole in pharmaceutical preparations by capillary zone electrophoresis. <i>Analytica Chimica Acta</i> , 2005, 547, 83-88.	5.4	10
43	Maternal and fetal blood levels of moxifloxacin, levofloxacin, cefepime and cefoperazone. <i>International Journal of Antimicrobial Agents</i> , 2010, 36, 175-178.	2.5	10
44	Atorvastatin-loaded nanosprayed chitosan nanoparticles for peripheral nerve injury. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2020, 9, 74-84.	0.9	10
45	From nutrition to medicine: Assessing hemorrhoid healing activity of <i>Solanum melongena</i> L. via in vivo experimental models and its major chemicals. <i>Journal of Ethnopharmacology</i> , 2020, 261, 113143.	4.1	10
46	Electrospun Nanofibers for Dual and Local Delivery of Neuroprotective Drugs. <i>Fibers and Polymers</i> , 2021, 22, 334-344.	2.1	10
47	Sub-Inhibitory Concentrations of Ciprofloxacin Alone and Combinations with Plant-Derived Compounds against <i>P. aeruginosa</i> Biofilms and Their Effects on the Metabolomic Profile of <i>P. aeruginosa</i> Biofilms. <i>Antibiotics</i> , 2021, 10, 414.	3.7	10
48	Improved oral bioavailability of anticancer drug tamoxifen through complexation with water soluble cyclodextrins: in vitro and in vivo evaluation. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2020, 96, 81-91.	1.6	9
49	Comparison of Pharmacokinetic Profiles of Moxifloxacin in Caesarean versus Non-Pregnant Sectioned Women by Fully Validated HPLC with Fluorescence Detection. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010, 13, 502-509.	1.1	8
50	A Snapshot on the Current Status of Alzheimer's Disease, Treatment Perspectives, <i>&lt;i>in-Vitro&/i></i> and <i>&lt;i>in-Vivo&/i></i> ; Research Studies and Future Opportunities. <i>Chemical and Pharmaceutical Bulletin</i> , 2019, 67, 1030-1041.	1.3	8
51	Gas chromatography-mass spectrometry based ¹⁸ O stable isotope labeling of Krebs cycle intermediates. <i>Analytica Chimica Acta</i> , 2021, 1154, 338325.	5.4	8
52	Reduced mitochondrial fission and impaired energy metabolism in human primary skeletal muscle cells of Megaconial Congenital Muscular Dystrophy. <i>Scientific Reports</i> , 2021, 11, 18161.	3.3	8
53	An LC-ESI-MS/MS method for the simultaneous determination of pronuciferine and roemerine in some <i>Papaver</i> species. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1096, 223-227.	2.3	7
54	Neuroactivity of the naturally occurring aporphine alkaloid, roemerine. <i>Natural Product Research</i> , 2021, 35, 6147-6152.	1.8	7

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55	Mitochondria-targeted CoQ10 loaded PLGA-b-PEG-TPP nanoparticles: Their effects on mitochondrial functions of COQ8B HK-2 cells. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2022, 173, 22-33.	4.3	7
56	Omics technologies for high-throughput-screening of cell-biomaterial interactions. <i>Molecular Omics</i> , 2022, 18, 591-615.	2.8	7
57	Adenylate Kinase Isoform Network: A Major Hub in Cell Energetics and Metabolic Signaling. <i>Springer Series in Biophysics</i> , 2014, , 145-162.	0.4	6
58	Optimization and validation of a HILIC-LC-ESI-MS/MS method for the simultaneous analysis of targeted metabolites: Cross validation of untargeted metabolomic studies for early diagnosis of breast cancer. <i>Microchemical Journal</i> , 2020, 159, 105559.	4.5	6
59	GC-MS analysis of seven metabolites for the screening of pregnant women with Down Syndrome fetuses. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 188, 113427.	2.8	6
60	Metabolic infrastructure of pregnant women with methylenetetrahydrofolate reductase polymorphisms: A metabolomic analysis. <i>Biomedical Chromatography</i> , 2020, 34, e4842.	1.7	6
61	Metabolomic profiling of active and inactive liver cystic echinococcosis. <i>Acta Tropica</i> , 2021, 221, 105985.	2.0	6
62	In Vitro Release Test of Nano-drug Delivery Systems Based on Analytical and Technological Perspectives. <i>Current Analytical Chemistry</i> , 2019, 15, 373-409.	1.2	6
63	Application of Micellar Electrokinetic Capillary Chromatography for the Determination of Nifedipine and Its Degradation Product in Pharmaceutical Preparations. <i>Analytical Letters</i> , 2003, 36, 371-387.	1.8	5
64	Assessment of Dose Proportionality of Rivaroxaban Nanocrystals. <i>AAPS PharmSciTech</i> , 2020, 21, 228.	3.3	5
65	Neuroactivity of naturally occurring proaporphine alkaloid, pronuciferine. <i>Journal of Biochemical and Molecular Toxicology</i> , 2020, 34, e22601.	3.0	5
66	Human laryngeal squamous cell carcinoma cell line release of endogenous anandamide and 2-arachidonoylglycerol, and their antiproliferative effect via exogenous supplementation: an in vitro study. <i>Cell and Tissue Banking</i> , 2022, 23, 93-100.	1.1	5
67	Radiotherapy-induced alterations in vitreous humor: A new potential critical structure. <i>Experimental Eye Research</i> , 2021, 212, 108802.	2.6	5
68	GC-MS Based Metabolic Profiling of Parkinson's Disease with Glutathione S-transferase M1 and T1 Polymorphism in Tunisian Patients. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2020, 23, 1041-1048.	1.1	5
69	Xenogenic Neural Stem Cell-Derived Extracellular Nanovesicles Modulate Human Mesenchymal Stem Cell Fate and Reconstruct Metabolomic Structure. <i>Advanced Biology</i> , 2022, 6, e2101317.	2.5	5
70	Characterization of human bone marrow niches with metabolome and transcriptome profiling. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	4
71	Simultaneous Quantification of Paclitaxel and Vinorelbine Encapsulated in Theranostic Nanosized Liposomes. <i>Journal of Analytical Chemistry</i> , 2021, 76, 742-748.	0.9	4
72	Integrative proteomics and metabolomics approach to elucidate the antimicrobial effect of simvastatin on <i>Escherichia coli</i> . <i>Biomedical Chromatography</i> , 2021, 35, e5180.	1.7	4

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73	HILIC Based LC/MS for Metabolite Analysis. Recent Advances in Analytical Techniques, 2018, , 98-130.	0.5	4
74	Phosphate Anion Imprinted Cryogel Cartridges for Selective Preconcentration of Phosphorylated Amino Acids from Protein Lysate: An Alternative Sorbent for Proteome Analyses. ChemistrySelect, 2020, 5, 11730-11736.	1.5	3
75	Polymeric Nanoparticle Versus Liposome Formulations: Comparative Physicochemical and Metabolomic Studies as L-Carnitine Delivery Systems. AAPS PharmSciTech, 2020, 21, 308.	3.3	3
76	The effects of systemic and local fatty acid amide hydrolase and monoacylglycerol lipase inhibitor treatments on the metabolomic profile of lungs. Biomedical Chromatography, 2022, 36, e5231.	1.7	3
77	An Improved and Validated HPLC Method for the Determination of Methylprednisolone Sodium Succinate and its Degradation Products in Nanoparticles. Current Pharmaceutical Analysis, 2017, 13, 162-168.	0.6	3
78	Do Thickening Agents Used in Dysphagia Diet Affect Drug Bioavailability?. European Journal of Pharmaceutical Sciences, 2022, 174, 106197.	4.0	3
79	Development and validation of an HPLC method for determination of rofecoxib in bovine serum albumin microspheres. Turkish Journal of Chemistry, 2020, 44, 647-655.	1.2	2
80	Detection of brain metastasis by metabolomics methods in metastatic breast cancer patients.. Journal of Clinical Oncology, 2019, 37, e12572-e12572.	1.6	2
81	State-of-the-art GC-MS approaches for probing central carbon metabolism. Microchemical Journal, 2022, 172, 106892.	4.5	2
82	Efficacy of Sirna-Loaded Nanoparticles in the Treatment of k-ras Mutant Lung Cancer <i>in vitro</i>. Journal of Microencapsulation, 2022, , 1-19.	2.8	2
83	Exometabolomic analysis of susceptible and multi-drug resistant Pseudomonas aeruginosa. Letters in Applied Microbiology, 2022, 75, 234-242.	2.2	2
84	The Pharmacokinetic Profiles of Pre-Operative Prophylactic Cefepime Application in Pregnant and Non-Pregnant Women Undergoing Surgical Interventions Using a Fully Validated Liquid Chromatographic Method. Chromatographia, 2013, 76, 1513-1519.	1.3	1
85	Metabolomics-driven approaches on interactions between Enterococcus faecalis and Candida albicans biofilms. Turkish Journal of Pharmaceutical Sciences, 2021, 18, 0-0.	1.4	1
86	Simultaneous Determination of Cefixime, Cefdinir and Clavulanic Acid by High Performance Liquid Chromatography. Pharmaceutical Chemistry Journal, 2021, 54, 1186-1191.	0.8	1
87	Determination and validation of aprepitant in rat plasma using LC ⁺ MS/MS. Bioanalysis, 2021, 13, 363-372.	1.5	1
88	A Simple Extraction Procedure for HPLC Analysis of Fluoxetine in Rat Plasma Samples. Current Pharmaceutical Analysis, 2016, 13, 80-84.	0.6	1
89	Analysis of Quinolones in Biological Materials by Liquid Chromatography. Current Analytical Chemistry, 2021, 17, 1278-1304.	1.2	1
90	Analytical perspective on biomarkers research: from untargeted to targeted metabolomics. , 2022, , 545-586.		1

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91	Optimization and normalization strategies for long term untargeted HILIC-LC-qTOF-MS based metabolomics analysis: Early diagnosis of breast cancer. <i>Microchemical Journal</i> , 2022, 179, 107658.	4.5	1
92	Quantification of Moxifloxacin and Levofloxacin in Curettage Material by SPE-LC. <i>Chromatographia</i> , 2010, 71, 1147-1150.	1.3	0
93	Determination of N-acetylcysteine in the presence of ciprofloxacin or levofloxacin in microparticulate dry powder inhalers. <i>Turkish Journal of Chemistry</i> , 2019, 43, 846-858.	1.2	0
94	Salbutamol Delivered by Jet Nebulizer: Closed System Design and Impact of a Model Biofilm. <i>Respiratory Care</i> , 2021, 66, 1440-1445.	1.6	0
95	Quantitative analysis of isoflavones in 11 <i>Trifolium</i> spec. from Turkish flora and in some commercially available <i>Trifolium</i> products. <i>Planta Medica</i> , 2010, 76, .	1.3	0
96	Quality control of valerian products by HPLC fingerprint analysis. <i>Planta Medica</i> , 2016, 81, S1-S381.	1.3	0
97	The correlation between BDNF in SH-SY5Y cell lines and GC-MS metabolomic profiling of <i>Melissa officinalis</i> , <i>Hypericum perforatum</i> and <i>Passiflora incarnata</i> . <i>Planta Medica International Open</i> , 2017, 4, .	0.5	0
98	Metabolomics Studies on Asteraceae Family Plants to Find Cytotoxic Drug Candidates. <i>Proceedings (mdpi)</i> , 2019, 40, .	0.2	0
99	Ultrafiltration-based Extraction and LC-MS/MS Quantification of Phenylalanine in Human Blood Sample for Metabolite Target Analysis. <i>Current Pharmaceutical Analysis</i> , 2020, 17, 81-86.	0.6	0
100	Possible Effect of Chelation Treatment on Metabolomic and Lipidomic Analysis in Lead Exposure. <i>Journal of Occupational and Environmental Medicine</i> , 2022, Publish Ahead of Print, .	1.7	0
101	GC-MS Based Metabolomics Analysis to Evaluate Short-Term Effect of Tumor Removal on Patients with Early-Stage Breast Cancer. <i>Journal of Chromatographic Science</i> , 2022, , .	1.4	0
102	Metabolomics mapping changed after olanzapine therapy in drug-naive schizophrenia patients—the significant impact of gene polymorphisms. <i>Toxicology Research</i> , 0, , .	2.1	0