

Martin Kuchar

List of Publications by Year in descending order

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106
papers

1,672
citations

361045

20
h-index

377514

34
g-index

113
all docs

113
docs citations

113
times ranked

1888
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmacokinetic and behavioural profile of THC, CBD, and THC+CBD combination after pulmonary, oral, and subcutaneous administration in rats and confirmation of conversion in vivo of CBD to THC. <i>European Neuropsychopharmacology</i> , 2017, 27, 1223-1237.	0.3	169
2	Menthol-based hydrophobic deep eutectic solvents: Towards greener and efficient extraction of phytocannabinoids. <i>Journal of Cleaner Production</i> , 2018, 193, 391-396.	4.6	125
3	Exploring the effect of microdosing psychedelics on creativity in an open-label natural setting. <i>Psychopharmacology</i> , 2018, 235, 3401-3413.	1.5	102
4	A single psilocybin dose is associated with long-term increased mindfulness, preceded by a proportional change in neocortical 5-HT _{2A} receptor binding. <i>European Neuropsychopharmacology</i> , 2020, 33, 71-80.	0.3	88
5	Pharmacokinetic, Ambulatory, and Hyperthermic Effects of 3,4-Methylenedioxy-N-Methylcathinone (Methylone) in Rats. <i>Frontiers in Psychiatry</i> , 2017, 8, 232.	1.3	74
6	Crosstalk between the transcriptional regulation of dopamine D2 and cannabinoid CB1 receptors in schizophrenia: Analyses in patients and in perinatal ¹⁹ T-tetrahydrocannabinol-exposed rats. <i>Pharmacological Research</i> , 2021, 164, 105357.	3.1	43
7	Novel polymerizable bent-shaped monomeric molecules. <i>Liquid Crystals</i> , 2006, 33, 41-56.	0.9	34
8	Detailed pharmacological evaluation of methoxetamine (MXE), a novel psychoactive ketamine analogue—Behavioural, pharmacokinetic and metabolic studies in the Wistar rat. <i>Brain Research Bulletin</i> , 2016, 126, 102-110.	1.4	33
9	Salting out assisted liquid-liquid extraction for liquid chromatography tandem-mass spectrometry determination of amphetamine-like stimulants in meconium. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 172, 42-49.	1.4	33
10	Laterally substituted naphthalene-2,7-diol-based bent-shaped liquid crystals. <i>Liquid Crystals</i> , 2005, 32, 1151-1160.	0.9	32
11	Chiral separation of new designer drugs (Cathinones) on chiral ion-exchange type stationary phases. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 120, 306-315.	1.4	30
12	Psilocybin microdosing does not affect emotion-related symptoms and processing: A preregistered field and lab-based study. <i>Journal of Psychopharmacology</i> , 2022, 36, 97-113.	2.0	30
13	Combination of UV and MS/MS detection for the LC analysis of cannabidiol-rich products. <i>Talanta</i> , 2020, 219, 121250.	2.9	29
14	Stability of psilocybin and its four analogs in the biomass of the psychotropic mushroom <i>Psilocybe cubensis</i> . <i>Drug Testing and Analysis</i> , 2021, 13, 439-446.	1.6	28
15	Emerging toxicity of 5,6-methylenedioxy-2-aminoindane (MDAI): Pharmacokinetics, behaviour, thermoregulation and LD50 in rats. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 69, 49-59.	2.5	26
16	Different effects of prenatal MAM vs. perinatal THC exposure on regional cerebral blood perfusion detected by Arterial Spin Labelling MRI in rats. <i>Scientific Reports</i> , 2019, 9, 6062.	1.6	26
17	Current and Speed Sensor Fault Diagnosis Method Applied to Induction Motor Drive. <i>IEEE Access</i> , 2021, 9, 38660-38672.	2.6	24
18	Sensorless control of variable speed induction motor drive using RBF neural network. <i>Journal of Applied Logic</i> , 2017, 24, 97-108.	1.1	23

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19	Salting-out-assisted liquid-liquid extraction as a suitable approach for determination of methoxetamine in large sets of tissue samples. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1171-1181.	1.9	22
20	Mephedrone (4-Methylmethcathinone): Acute Behavioral Effects, Hyperthermic, and Pharmacokinetic Profile in Rats. <i>Frontiers in Psychiatry</i> , 2018, 8, 306.	1.3	22
21	Effects of psilocybin microdosing on awe and aesthetic experiences: a preregistered field and lab-based study. <i>Psychopharmacology</i> , 2022, 239, 1705-1720.	1.5	22
22	Binge-like Alcohol Exposure in Adolescence: Behavioural, Neuroendocrine and Molecular Evidence of Abnormal Neuroplasticity and Return. <i>Biomedicines</i> , 2021, 9, 1161.	1.4	22
23	Efficiency and stability of spectral sensitization of boron-doped-diamond electrodes through covalent anchoring of a donor-acceptor organic chromophore (P1). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16444-16450.	1.3	21
24	Plectin controls biliary tree architecture and stability in cholestasis. <i>Journal of Hepatology</i> , 2018, 68, 1006-1017.	1.8	21
25	Methylone and pentylone: structural analysis of new psychoactive substances. <i>Forensic Toxicology</i> , 2019, 37, 366-377.	1.4	19
26	Synthesis of Purines Bearing Functionalized C-Substituents by the Conjugate Addition of Nucleophiles to 6-Vinylpurines and 6-Ethynylpurines. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 5083-5098.	1.2	18
27	Cytostatic and Antiviral 6-Arylpurine Ribonucleosides IX. Synthesis and Evaluation of 6-Substituted 3-Deazapurine Ribonucleosides. <i>Collection of Czechoslovak Chemical Communications</i> , 2008, 73, 665-678.	1.0	17
28	Synthesis of spherical amorphous selenium nano and microparticles with tunable sizes. <i>Micro and Nano Letters</i> , 2016, 11, 91-93.	0.6	17
29	Highly sensitive avidin-biotin ELISA for detection of nandrolone and testosterone in dietary supplements. <i>Drug Testing and Analysis</i> , 2017, 9, 553-560.	1.6	17
30	Behavioral and Pharmacokinetic Profile of Indole-Derived Synthetic Cannabinoids JWH-073 and JWH-210 as Compared to the Phytocannabinoid Δ^9 -THC in Rats. <i>Frontiers in Neuroscience</i> , 2018, 12, 703.	1.4	17
31	Synthesis, cytostatic, and antiviral activity of novel 6-[2-(dialkylamino)ethyl]-, 6-(2-alkoxyethyl)-, 6-[2-(alkylsulfanyl)ethyl]-, and 6-[2-(dialkylamino)vinyl]purine nucleosides. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 1400-1424.	1.4	16
32	Structure determination of butylone as a new psychoactive substance using chiroptical and vibrational spectroscopies. <i>Chirality</i> , 2018, 30, 548-559.	1.3	16
33	Gradient supercritical fluid chromatography coupled to mass spectrometry with a gradient flow of make-up solvent for enantioseparation of cathinones. <i>Journal of Chromatography A</i> , 2020, 1625, 461286.	1.8	16
34	Stability Study of Cannabidiol in the Form of Solid Powder and Sunflower Oil Solution. <i>Pharmaceutics</i> , 2021, 13, 412.	2.0	16
35	Cocaine Hydrochloride Structure in Solution Revealed by Three Chiroptical Methods. <i>ChemPhysChem</i> , 2017, 18, 2258-2265.	1.0	15
36	Enantioseparation of novel psychoactive chiral amines and their mixture by capillary electrophoresis using cyclodextrins as chiral selectors. <i>Chemical Papers</i> , 2018, 72, 2737-2743.	1.0	15

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37	Synthesis of substituted 6-cyclopropylpurine bases and nucleosides by cross-coupling reactions or cyclopropanations. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 2377.	1.5	14
38	Enantioseparation of Chiral Sulfoxides on Amylose-Based Columns: Comparison of Normal Phase Liquid Chromatography and Supercritical Fluid Chromatography. <i>Chromatographia</i> , 2017, 80, 547-557.	0.7	14
39	Lateral flow immunoassay and enzyme linked immunosorbent assay as effective immunomethods for the detection of synthetic cannabinoid JWH-200 based on the newly synthesized hapten. <i>Toxicology Reports</i> , 2018, 5, 65-75.	1.6	14
40	Synthesis, absolute configuration and <i>in vitro</i> cytotoxicity of deschloroketamine enantiomers: rediscovered and abused dissociative anaesthetic. <i>New Journal of Chemistry</i> , 2018, 42, 19360-19368.	1.4	14
41	Self-Tuning Observer for Sensor Fault-Tolerant Control of Induction Motor Drive. <i>Energies</i> , 2021, 14, 2564.	1.6	14
42	Modelling and simulation of induction machine and frequency converter considering power losses. , 2015, , .		13
43	Behavioural, Pharmacokinetic, Metabolic, and Hyperthermic Profile of 3,4-Methylenedioxypyrovalerone (MDPV) in the Wistar Rat. <i>Frontiers in Psychiatry</i> , 2018, 9, 144.	1.3	13
44	X-Ray powder diffraction – A non-destructive and versatile approach for the identification of new psychoactive substances. <i>Talanta</i> , 2019, 195, 414-418.	2.9	11
45	Structural spectroscopic study of enantiomerically pure synthetic cathinones and their major metabolites. <i>New Journal of Chemistry</i> , 2021, 45, 850-860.	1.4	10
46	Removal of Ampicillin by Heterogeneous Photocatalysis: Combined Experimental and DFT Study. <i>Nanomaterials</i> , 2021, 11, 1992.	1.9	10
47	Synthesis of diverse 6-(1,2-disubstituted ethyl)purine bases and nucleosides via 6-(oxiran-2-yl)purines. <i>Tetrahedron</i> , 2008, 64, 10355-10364.	1.0	9
48	Tunable rapid microwave synthesis of up-converting hexagonal NaYxGdyYbzEr(1-x-y-z)F4 nanocrystals in large quantity. <i>Journal of Fluorine Chemistry</i> , 2015, 178, 56-60.	0.9	9
49	Induction motor drive with PWM direct torque control. , 2017, , .		9
50	Two immunoassays for the detection of 2C-B and related hallucinogenic phenethylamines. <i>Journal of Pharmacological and Toxicological Methods</i> , 2019, 95, 36-46.	0.3	9
51	Synthesis and identification of deschloroketamine metabolites in rats' urine and a quantification method for deschloroketamine and metabolites in rats' serum and brain tissue using liquid chromatography tandem mass spectrometry. <i>Drug Testing and Analysis</i> , 2020, 12, 343-360.	1.6	9
52	New psychoactive substances on dark web markets: From deal solicitation to forensic analysis of purchased substances. <i>Drug Testing and Analysis</i> , 2021, 13, 156-168.	1.6	9
53	25CN-NBOMe Metabolites in Rat Urine, Human Liver Microsomes and <i>C. elegans</i> – Structure Determination and Synthesis of the Most Abundant Metabolites. <i>Metabolites</i> , 2021, 11, 212.	1.3	9
54	Estimation Techniques for Sensorless Speed Control of Induction Motor Drive. , 2006, , .		8

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55	Development of Enzyme-Linked Immunosorbent Assay for Determination of Boldenone in Dietary Supplements. <i>Food Analytical Methods</i> , 2016, 9, 3179-3186.	1.3	8
56	Enantioseparation and Determination of Mephedrone and Its Metabolites by Capillary Electrophoresis Using Cyclodextrins as Chiral Selectors. <i>Molecules</i> , 2020, 25, 2879.	1.7	8
57	Implementation of RBF Neural Network in Vector Control Structure of Induction Motor. <i>International Review of Electrical Engineering</i> , 2014, 9, 749.	0.1	8
58	Advanced microextraction techniques for the analysis of amphetamines in human breast milk and their comparison with conventional methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 210, 114549.	1.4	8
59	Application of fuzzy logic in sensorless induction motor drive with PWM-DTC. <i>Electrical Engineering</i> , 2020, 102, 129-140.	1.2	7
60	Stanzolol derived ELISA as a sensitive forensic tool for the detection of multiple 17 β -methylated anabolics. <i>Steroids</i> , 2020, 155, 108550.	0.8	7
61	Structure of heroin in a solution revealed by chiroptical spectroscopy. <i>Chirality</i> , 2020, 32, 854-865.	1.3	7
62	Paramagnetic encoding of molecules. <i>Nature Communications</i> , 2022, 13, .	5.8	7
63	Preparation and luminescent properties of cubic potassium-erbium fluoride nanoparticles. <i>Journal of Fluorine Chemistry</i> , 2013, 156, 363-366.	0.9	6
64	Rotor flux estimation using voltage model of induction motor. , 2015, , .		6
65	Facile synthesis of magnetic Co nanofoam by low-temperature thermal decomposition of Co glycerolate. <i>Micro and Nano Letters</i> , 2017, 12, 278-280.	0.6	6
66	Sensitive enzyme immunoassay for screening methandienone in dietary supplements. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2018, 35, 1653-1661.	1.1	6
67	Neuroactive Steroids and Cognitive Functions in First-Episode Psychosis Patients and Their Healthy Siblings. <i>Frontiers in Psychiatry</i> , 2019, 10, 390.	1.3	6
68	Complexation of cathinones by 4-tert-butylcalix[4]arene tetra-acetate as a possible technique for forensic analysis. <i>Forensic Toxicology</i> , 2020, 38, 70-78.	1.4	6
69	Photocatalytic Removal of Pharmaceuticals from Greywater. <i>Catalysts</i> , 2021, 11, 1125.	1.6	6
70	2C-B-Fly-NBOMe Metabolites in Rat Urine, Human Liver Microsomes and <i>C. elegans</i> : Confirmation with Synthesized Analytical Standards. <i>Metabolites</i> , 2021, 11, 775.	1.3	6
71	Use of novel haptens in the production of antibodies for the detection of tryptamines. <i>RSC Advances</i> , 2018, 8, 16243-16250.	1.7	5
72	Robust sliding mode observer application in vector control of induction motor. , 2018, , .		5

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73	Immunochemical techniques for anabolic androgenic steroid: matrix effects study for food supplements. <i>European Food Research and Technology</i> , 2019, 245, 1011-1019.	1.6	5
74	Can X-Ray Powder Diffraction Be a Suitable Forensic Method for Illicit Drug Identification?. <i>Frontiers in Chemistry</i> , 2020, 8, 499.	1.8	5
75	Large scale preparation of up- converting YF3:YbEr nanocrystals with various sizes by solvothermal syntheses using ionic liquid bmimCl. <i>Journal of Fluorine Chemistry</i> , 2016, 188, 14-17.	0.9	4
76	Application of BEMF-MRAS with Kalman filter in sensorless control of induction motor drive. <i>Electrical Engineering</i> , 2017, 99, 1151-1160.	1.2	4
77	Chiroptical and vibrational spectroscopic study of genuine and counterfeit medicines containing tadalafil. <i>Chirality</i> , 2018, 30, 560-567.	1.3	4
78	Rare earth nanofluorides: synthesis using ionic liquids. <i>Reviews in Inorganic Chemistry</i> , 2019, 39, 77-90.	1.8	4
79	Naphyrone (naphthylpyrovalerone): Pharmacokinetics, behavioural effects and thermoregulation in Wistar rats. <i>Addiction Biology</i> , 2021, 26, e12906.	1.4	4
80	Comparison of genuine, generic and counterfeit Cialis tablets using vibrational spectroscopy and statistical methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 206, 114383.	1.4	4
81	Ecstasy tablets: Rapid identification and determination of enantiomeric excess of MDMA. <i>Forensic Chemistry</i> , 2021, 26, 100381.	1.7	4
82	LiFePo battery charger with controlled rectifier. , 2017, , .		3
83	Counterfeit benzodiazepinesâ€”A phantom menace. <i>International Journal of Clinical Practice</i> , 2020, 74, e13575.	0.8	3
84	Electrochemically oxidized 15-crown-5 substituted thiophene and host-guest interaction with new psychoactive substances. <i>Electrochimica Acta</i> , 2021, 373, 137862.	2.6	3
85	Pharmacokinetic, pharmacodynamic, and behavioural studies of deschloroketamine (DCK) in Wistar rats. <i>British Journal of Pharmacology</i> , 2021, , .	2.7	3
86	Iodinated Choline Transport-Targeted Tracers. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 15960-15978.	2.9	3
87	A Novel Speed and Current Sensor Fault-Tolerant Control Based on Estimated Stator Currents in Induction Motor Drives. <i>International Review of Electrical Engineering</i> , 2020, 15, 344.	0.1	3
88	Heterocyclic Cathinones as Inhibitors of Kynurenine Aminotransferase IIâ€”Design, Synthesis, and Evaluation. <i>Pharmaceuticals</i> , 2021, 14, 1291.	1.7	3
89	Psilocybinâ€”Mediated Attenuation of Gamma Band Auditory Steady-State Responses (ASSR) Is Driven by the Intensity of Cognitive and Emotional Domains of Psychedelic Experience. <i>Journal of Personalized Medicine</i> , 2022, 12, 1004.	1.1	3
90	Natural language signatures of psilocybin microdosing. <i>Psychopharmacology</i> , 2022, 239, 2841-2852.	1.5	3

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91	Data Acquisition System for the Modern Induction Motor Drive applications. , 2020, , .		2
92	Structural analysis of MDMA in solution by methods of chiroptical spectroscopy supported by DFT calculations. Vibrational Spectroscopy, 2021, 114, 103255.	1.2	2
93	Intriguing Cytotoxicity of the Street Dissociative Anesthetic Methoxphenidine: Unexpected Impurities Spotted. International Journal of Molecular Sciences, 2022, 23, 2083.	1.8	2
94	PI-Based Fuzzy Speed Controller with PWM Direct Torque Control for Induction Motor Drive. Lecture Notes in Electrical Engineering, 2018, , 811-820.	0.3	1
95	X-ray powder diffraction data for methoxmetamine hydrochloride, C ₁₄ H ₂₀ ClNO ₂ . Powder Diffraction, 2018, 33, 242-245.	0.4	1
96	Particle swarm optimization-based stator resistance observer for speed sensorless induction motor drive. International Journal of Electrical and Computer Engineering, 2021, 11, 815.	0.5	1
97	Effects of synthetic cathinone naphyrone in the conditioned place preference test “ Evidence of its addictive potential. Behavioural Brain Research, 2022, 421, 113713.	1.2	1
98	Application of RBF Neural Network in Sensorless Control of A.C. Drive with Induction Motor. Advances in Intelligent Systems and Computing, 2014, , 217-227.	0.5	0
99	Load torque impact on DC motor current control accuracy. , 2016, , .		0
100	Acute Cannabis Intoxication and the Brain's Response to Visual Erotica: An Fmri Study. Journal of Sexual Medicine, 2017, 14, e253.	0.3	0
101	Reply to Comments by Pescitelli and Bruhn on “Cocaine Hydrochloride Structure in Solution Revealed by Three Chiroptical Methods”. ChemPhysChem, 2017, 18, 2552-2552.	1.0	0
102	Fuzzy model-based speed observer for sensorless induction motor drive with PWM-DTC. , 2018, , .		0
103	Synthesis of purines bearing functionalized C-substituents by nucleophilic additions to 6-ethynyl- or 6-vinylpurines. , 2005, , .		0
104	Purine bases and nucleosides bearing functionalized C-substituents in position 6. Synthesis and biological activities. , 2008, , .		0
105	Effect of Weighting Coefficients on Behavior of the DTC Method with Direct Calculation of Voltage Vector. Lecture Notes in Electrical Engineering, 2020, , 683-692.	0.3	0
106	Compensation of Torque-Producing Stator Current Error for Vector-Controlled Induction Motor Drives. Energies, 2022, 15, 815.	1.6	0