

# Martin Kuchar

## 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.

90  
papers

984  
citations

16  
h-index

27  
g-index

113  
ext. papers

1,352  
ext. citations

3.6  
avg, IF

4.58  
L-index

#	Paper	IF	Citations
90	Compensation of Torque-Producing Stator Current Error for Vector-Controlled Induction Motor Drives. <i>Energies</i> , <b>2022</b> , 15, 815	3.1	
89	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> , <b>2021</b> , 210, 114549	3.5	1
88	Effects of synthetic cathinone naphyrone in the conditioned place preference test - evidence of its addictive potential.. <i>Behavioural Brain Research</i> , <b>2021</b> , 421, 113713	3.4	
87	25CN-NBOMe Metabolites in Rat Urine, Human Liver Microsomes and Structure Determination and Synthesis of the Most Abundant Metabolites. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	1
86	Stability Study of Cannabidiol in the Form of Solid Powder and Sunflower Oil Solution. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	3
85	Electrochemically oxidized 15-crown-5 substituted thiophene and host-guest interaction with new psychoactive substances. <i>Electrochimica Acta</i> , <b>2021</b> , 373, 137862	6.7	0
84	Self-Tuning Observer for Sensor Fault-Tolerant Control of Induction Motor Drive. <i>Energies</i> , <b>2021</b> , 14, 2564	3.1	6
83	Effects of psilocybin microdosing on awe and aesthetic experiences: a preregistered field and lab-based study. <i>Psychopharmacology</i> , <b>2021</b> , 1	4.7	5
82	Structural analysis of MDMA in solution by methods of chiroptical spectroscopy supported by DFT calculations. <i>Vibrational Spectroscopy</i> , <b>2021</b> , 114, 103255	2.1	2
81	Naphyrone (naphthylpyrovalerone): Pharmacokinetics, behavioural effects and thermoregulation in Wistar rats. <i>Addiction Biology</i> , <b>2021</b> , 26, e12906	4.6	2
80	New psychoactive substances on dark web markets: From deal solicitation to forensic analysis of purchased substances. <i>Drug Testing and Analysis</i> , <b>2021</b> , 13, 156-168	3.5	3
79	Structural spectroscopic study of enantiomerically pure synthetic cathinones and their major metabolites. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 850-860	3.6	4
78	Crosstalk between the transcriptional regulation of dopamine D2 and cannabinoid CB1 receptors in schizophrenia: Analyses in patients and in perinatal $\beta$ -tetrahydrocannabinol-exposed rats. <i>Pharmacological Research</i> , <b>2021</b> , 164, 105357	10.2	16
77	Stability of psilocybin and its four analogs in the biomass of the psychotropic mushroom <i>Psilocybe cubensis</i> . <i>Drug Testing and Analysis</i> , <b>2021</b> , 13, 439-446	3.5	8
76	Current and Speed Sensor Fault Diagnosis Method Applied to Induction Motor Drive. <i>IEEE Access</i> , <b>2021</b> , 9, 38660-38672	3.5	7
75	Removal of Ampicillin by Heterogeneous Photocatalysis: Combined Experimental and DFT Study. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
74	Photocatalytic Removal of Pharmaceuticals from Greywater. <i>Catalysts</i> , <b>2021</b> , 11, 1125	4	3

73	Binge-like Alcohol Exposure in Adolescence: Behavioural, Neuroendocrine and Molecular Evidence of Abnormal Neuroplasticity and Return. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	5
72	Comparison of genuine, generic and counterfeit Cialis tablets using vibrational spectroscopy and statistical methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 206, 114383	3.5	1
71	Psilocybin microdosing does not affect emotion-related symptoms and processing: A preregistered field and lab-based study.. <i>Journal of Psychopharmacology</i> , <b>2021</b> , 2698811211050556	4.6	1
70	Ecstasy tablets: Rapid identification and determination of enantiomeric excess of MDMA. <i>Forensic Chemistry</i> , <b>2021</b> , 26, 100381	2.8	0
69	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> , <b>2020</b> , 1625, 461286	4.5	7
68	Combination of UV and MS/MS detection for the LC analysis of cannabidiol-rich products. <i>Talanta</i> , <b>2020</b> , 219, 121250	6.2	15
67	Counterfeit benzodiazepines-A phantom menace. <i>International Journal of Clinical Practice</i> , <b>2020</b> , 74, e13575	3.5	2
66	A single psilocybin dose is associated with long-term increased mindfulness, preceded by a proportional change in neocortical 5-HT <sub>2A</sub> receptor binding. <i>European Neuropsychopharmacology</i> , <b>2020</b> , 33, 71-80	1.2	38
65	Enantioseparation and Determination of Mephedrone and Its Metabolites by Capillary Electrophoresis Using Cyclodextrins as Chiral Selectors. <i>Molecules</i> , <b>2020</b> , 25,	4.8	3
64	Can X-Ray Powder Diffraction Be a Suitable Forensic Method for Illicit Drug Identification?. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 499	5	1
63	Structure of heroin in a solution revealed by chiroptical spectroscopy. <i>Chirality</i> , <b>2020</b> , 32, 854-865	2.1	5
62	Effect of Weighting Coefficients on Behavior of the DTC Method with Direct Calculation of Voltage Vector. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 683-692	0.2	
61	Iodinated Choline Transport-Targeted Tracers. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 15960-15978	8.3	0
60	Synthesis and identification of deschloroketamine metabolites in ratsRurine and a quantification method for deschloroketamine and metabolites in ratsRserum and brain tissue using liquid chromatography tandem mass spectrometry. <i>Drug Testing and Analysis</i> , <b>2020</b> , 12, 343-360	3.5	4
59	Stanozolol derived ELISA as a sensitive forensic tool for the detection of multiple 17β-methylated anabolics. <i>Steroids</i> , <b>2020</b> , 155, 108550	2.8	4
58	Application of fuzzy logic in sensorless induction motor drive with PWM-DTC. <i>Electrical Engineering</i> , <b>2020</b> , 102, 129-140	1.5	2
57	Complexation of cathinones by 4-tert-butylcalix[4]arene tetra-acetate as a possible technique for forensic analysis. <i>Forensic Toxicology</i> , <b>2020</b> , 38, 70-78	2.6	3
56	Rare earth nanofluorides: synthesis using ionic liquids. <i>Reviews in Inorganic Chemistry</i> , <b>2019</b> , 39, 77-90	2.4	2

55	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> , <b>2019</b> , 172, 42-49	3.5	24
54	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> , <b>2019</b> , 9, 6062	4.9	15
53	Methylone and pentylone: structural analysis of new psychoactive substances. <i>Forensic Toxicology</i> , <b>2019</b> , 37, 366-377	2.6	14
52	Neuroactive Steroids and Cognitive Functions in First-Episode Psychosis Patients and Their Healthy Siblings. <i>Frontiers in Psychiatry</i> , <b>2019</b> , 10, 390	5	5
51	Two immunoassays for the detection of 2C-B and related hallucinogenic phenethylamines. <i>Journal of Pharmacological and Toxicological Methods</i> , <b>2019</b> , 95, 36-46	1.7	7
50	X-Ray powder diffraction - A non-destructive and versatile approach for the identification of new psychoactive substances. <i>Talanta</i> , <b>2019</b> , 195, 414-418	6.2	7
49	Immunochemical techniques for anabolic androgenic steroid: matrix effects study for food supplements. <i>European Food Research and Technology</i> , <b>2019</b> , 245, 1011-1019	3.4	3
48	Chiroptical and vibrational spectroscopic study of genuine and counterfeit medicines containing tadalafil. <i>Chirality</i> , <b>2018</b> , 30, 560-567	2.1	4
47	Structure determination of butylone as a new psychoactive substance using chiroptical and vibrational spectroscopies. <i>Chirality</i> , <b>2018</b> , 30, 548-559	2.1	13
46	Plectin controls biliary tree architecture and stability in cholestasis. <i>Journal of Hepatology</i> , <b>2018</b> , 68, 1006-1017	10.17	13
45	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> , <b>2018</b> , 5, 65-75	4.8	13
44	Use of novel haptens in the production of antibodies for the detection of tryptamines.. <i>RSC Advances</i> , <b>2018</b> , 8, 16243-16250	3.7	1
43	Sensitive enzyme immunoassay for screening methandienone in dietary supplements. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , <b>2018</b> , 35, 1653-1661	3.2	4
42	Behavioural, Pharmacokinetic, Metabolic, and Hyperthermic Profile of 3,4-Methylenedioxypropylvalerone (MDPV) in the Wistar Rat. <i>Frontiers in Psychiatry</i> , <b>2018</b> , 9, 144	5	11
41	Menthol-based hydrophobic deep eutectic solvents: Towards greener and efficient extraction of phytocannabinoids. <i>Journal of Cleaner Production</i> , <b>2018</b> , 193, 391-396	10.3	82
40	Enantioseparation of novel psychoactive chiral amines and their mixture by capillary electrophoresis using cyclodextrins as chiral selectors. <i>Chemical Papers</i> , <b>2018</b> , 72, 2737-2743	1.9	12
39	PI-Based Fuzzy Speed Controller with PWM Direct Torque Control for Induction Motor Drive. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 811-820	0.2	
38	Synthesis, absolute configuration and in vitro cytotoxicity of deschloroketamine enantiomers: rediscovered and abused dissociative anaesthetic. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 19360-19368	3.6	8

37	Behavioral and Pharmacokinetic Profile of Indole-Derived Synthetic Cannabinoids JWH-073 and JWH-210 as Compared to the Phytocannabinoid $\Delta^9$ THC in Rats. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 703	5.1	12
36	X-ray powder diffraction data for methoxmetamine hydrochloride, C <sub>14</sub> H <sub>20</sub> ClNO <sub>2</sub> . <i>Powder Diffraction</i> , <b>2018</b> , 33, 242-245	1.8	1
35	Exploring the effect of microdosing psychedelics on creativity in an open-label natural setting. <i>Psychopharmacology</i> , <b>2018</b> , 235, 3401-3413	4.7	67
34	Enantioseparation of Chiral Sulfoxides on Amylose-Based Columns: Comparison of Normal Phase Liquid Chromatography and Supercritical Fluid Chromatography. <i>Chromatographia</i> , <b>2017</b> , 80, 547-557	2.1	13
33	Facile synthesis of magnetic Co nanofoam by low-temperature thermal decomposition of Co glycerolate. <i>Micro and Nano Letters</i> , <b>2017</b> , 12, 278-280	0.9	6
32	Acute Cannabis Intoxication and the Brain Response to Visual Erotica: An Fmri Study. <i>Journal of Sexual Medicine</i> , <b>2017</b> , 14, e253	1.1	
31	Mephedrone (4-Methylmethcathinone): Acute Behavioral Effects, Hyperthermic, and Pharmacokinetic Profile in Rats. <i>Frontiers in Psychiatry</i> , <b>2017</b> , 8, 306	5	13
30	Reply to Comments by Pescitelli and Bruhn on "Cocaine Hydrochloride Structure in Solution Revealed by Three Chiroptical Methods". <i>ChemPhysChem</i> , <b>2017</b> , 18, 2552	3.2	
29	Cocaine Hydrochloride Structure in Solution Revealed by Three Chiroptical Methods. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2258-2265	3.2	10
28	Application of BEMF-MRAS with Kalman filter in sensorless control of induction motor drive. <i>Electrical Engineering</i> , <b>2017</b> , 99, 1151-1160	1.5	2
27	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> , <b>2017</b> , 27, 1223-1237	1.2	84
26	<b>2017</b> ,		4
25	Sensorless control of variable speed induction motor drive using RBF neural network. <i>Journal of Applied Logic</i> , <b>2017</b> , 24, 97-108		12
24	Highly sensitive avidin-biotin ELISA for detection of nandrolone and testosterone in dietary supplements. <i>Drug Testing and Analysis</i> , <b>2017</b> , 9, 553-560	3.5	12
23	Pharmacokinetic, Ambulatory, and Hyperthermic Effects of 3,4-Methylenedioxy--Methylcathinone (Methylone) in Rats. <i>Frontiers in Psychiatry</i> , <b>2017</b> , 8, 232	5	59
22	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> , <b>2016</b> , 18, 16444-50	3.6	19
21	Large scale preparation of up- converting YF <sub>3</sub> :YbEr nanocrystals with various sizes by solvothermal syntheses using ionic liquid bmimCl. <i>Journal of Fluorine Chemistry</i> , <b>2016</b> , 188, 14-17	2.1	4
20	Chiral separation of new designer drugs (Cathinones) on chiral ion-exchange type stationary phases. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2016</b> , 120, 306-15	3.5	26

19	Synthesis of spherical amorphous selenium nano and microparticles with tunable sizes. <i>Micro and Nano Letters</i> , <b>2016</b> , 11, 91-93	0.9	13
18	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> , <b>2016</b> , 408, 1171-814	4.4	17
17	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> , <b>2016</b> , 69, 49-59	5.5	22
16	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> , <b>2016</b> , 126, 102-110	3.9	25
15	Development of Enzyme-Linked Immunosorbent Assay for Determination of Boldenone in Dietary Supplements. <i>Food Analytical Methods</i> , <b>2016</b> , 9, 3179-3186	3.4	7
14	Rotor flux estimation using voltage model of induction motor <b>2015</b> ,		4
13	Modelling and simulation of induction machine and frequency converter considering power losses <b>2015</b> ,		8
12	Tunable rapid microwave synthesis of up-converting hexagonal NaYxGdyYbzEr(1-x-y-z)F4 nanocrystals in large quantity. <i>Journal of Fluorine Chemistry</i> , <b>2015</b> , 178, 56-60	2.1	9
11	Application of RBF Neural Network in Sensorless Control of A.C. Drive with Induction Motor. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 217-227	0.4	
10	Implementation of RBF Neural Network in Vector Control Structure of Induction Motor. <i>International Review of Electrical Engineering</i> , <b>2014</b> , 9, 749	1.9	2
9	Preparation and luminescent properties of cubic potassium-erbium fluoride nanoparticles. <i>Journal of Fluorine Chemistry</i> , <b>2013</b> , 156, 363-366	2.1	5
8	Synthesis of substituted 6-cyclopropylpurine bases and nucleosides by cross-coupling reactions or cyclopropanations. <i>Organic and Biomolecular Chemistry</i> , <b>2008</b> , 6, 2377-87	3.9	10
7	Cytostatic and Antiviral 6-Arylpurine Ribonucleosides IX. Synthesis and Evaluation of 6-Substituted 3-Deazapurine Ribonucleosides. <i>Collection of Czechoslovak Chemical Communications</i> , <b>2008</b> , 73, 665-678		13
6	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> , <b>2008</b> , 16, 1400-24	3.4	16
5	Synthesis of diverse 6-(1,2-disubstituted ethyl)purine bases and nucleosides via 6-(oxiran-2-yl)purines. <i>Tetrahedron</i> , <b>2008</b> , 64, 10355-10364	2.4	6
4	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> , <b>2006</b> , 2006, 5083-5098	3.2	17
3	Estimation Techniques for Sensorless Speed Control of Induction Motor Drive <b>2006</b> ,		6
2	Novel polymerizable bent-shaped monomeric molecules. <i>Liquid Crystals</i> , <b>2006</b> , 33, 41-56	2.3	34

- 1 Laterally substituted naphthalene-2,7-diol-based bent-shaped liquid crystals. *Liquid Crystals*, **2005**, 32, 1151-1160 2.3 31