

# Mohamed M El-Wekil

## List of Publications by Year in descending order

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51  
papers

1,223  
citations

304743

22  
h-index

414414

32  
g-index

55  
all docs

55  
docs citations

55  
times ranked

614  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly selective and sensitive electrochemical determination of cysteine based on complexation with gold nanoparticle-modified copper-based metal organic frameworks. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2343-2353.	3.7	16
2	Electrochemical sensing of copper-chelator D- penicillamine based on complexation with gold nanoparticles modified copper based-metal organic frameworks. <i>Journal of Electroanalytical Chemistry</i> , 2022, 908, 116102.	3.8	11
3	Fluorometric and electrochemical dual-mode detection of toxic flavonoid rutin based on new nitrogen and sulfur co-doped carbon dots: Enhanced selectivity based on masking the interfering flavonoids with BSA complexation. <i>Journal of Food Composition and Analysis</i> , 2022, 108, 104428.	3.9	24
4	Double-signal quantification of amoxicillin based on interaction with 4-aminoantipyrine at copper and nitrogen co-doped carbon quantum dots as an artificial nanozyme. <i>Mikrochimica Acta</i> , 2022, 189, 183.	5.0	24
5	Design of "Turn On" fluorometric nanoprobe based on nitrogen doped graphene quantum dots modified with $\beta$ -cyclodextrin and vitamin B6 cofactor for selective sensing of dopamine in human serum. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 248, 119180.	3.9	38
6	Indirect differential pulse voltammetric analysis of cyanide at porous copper based metal organic framework modified carbon paste electrode: Application to different water samples. <i>Talanta</i> , 2021, 221, 121562.	5.5	21
7	Ultrasensitive and selective molecularly imprinted electrochemical oxaliplatin sensor based on a novel nitrogen-doped carbon nanotubes/Ag@Cu MOF as a signal enhancer and reporter nanohybrid. <i>Mikrochimica Acta</i> , 2021, 188, 124.	5.0	36
8	Simultaneous electrochemical detection of azithromycin and hydroxychloroquine based on VS2 QDs embedded N, S @graphene aerogel/cCNTs 3D nanostructure. <i>Microchemical Journal</i> , 2021, 163, 105925.	4.5	31
9	Mannitol capped magnetic dispersive micro-solid-phase extraction of polar drugs sparfloxacin and orbifloxacin from milk and water samples followed by selective fluorescence sensing using boron-doped carbon quantum dots. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105078.	6.7	35
10	NiFe <sub>2</sub> O <sub>4</sub> nanospheres functionalized with 2-(2, 4-Dihydroxyphenyl)-3, 5, 7-trihydroxychromen-4-one for selective solid-phase microextraction of aluminium. <i>Talanta</i> , 2021, 226, 122167.	5.5	15
11	Nitrogen doped graphene quantum dots based on host guest interaction for selective dual readout of dopamine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 252, 119516.	3.9	12
12	Facile one pot sonochemical synthesis of layered nanostructure of ZnS NPs/rGO nanosheets for simultaneous analysis of daclatasvir and hydroxychloroquine. <i>Microchemical Journal</i> , 2021, 164, 105972.	4.5	32
13	A novel design and facile synthesis of nature inspired poly (dopamine-Cr <sup>3+</sup> ) nanocubes decorated reduced graphene oxide for electrochemical sensing of flibanserin. <i>Microchemical Journal</i> , 2021, 164, 106020.	4.5	13
14	Nitrite fluorometric nanoprobe based on $\beta$ -MnO <sub>2</sub> nanorods functionalized with a fluorescence reporter dye. <i>Microchemical Journal</i> , 2021, 164, 105982.	4.5	6
15	Colorimetric and fluorometric nanoprobe for selective and sensitive recognition of hazardous colorant indigo carmine in beverages based on ion pairing with nitrogen doped carbon dots. <i>Food Chemistry</i> , 2021, 349, 129160.	8.2	17
16	Ivermectin detection using Ag@ B, S co-doped reduced graphene oxide nanohybrid. <i>Journal of Alloys and Compounds</i> , 2021, 871, 159627.	5.5	16
17	Enhanced molecular imprinted electrochemical sensing of histamine based on signal reporting nanohybrid. <i>Microchemical Journal</i> , 2021, 168, 106439.	4.5	37
18	Indirect Differential Pulse Voltammetric Determination of Fluoride Ions at Carbon Paste Electrode Modified with Porous and Electroactive Fe <sup>3+</sup> /Fe <sup>2+</sup> -Based-Metal Organic Frameworks Type MIL-101(Fe). <i>Journal of the Electrochemical Society</i> , 2021, 168, 126525.	2.9	4

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19	Facile fabrication of a novel 3D rose like lanthanum doped zirconia decorated reduced graphene oxide nanosheets: An efficient electro-catalyst for electrochemical reduction of futuristic anti-cancer drug salinomycin during pharmacokinetic study. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111849.	10.1	36
20	Development of dual function polyamine-functionalized carbon dots derived from one step green synthesis for quantitation of Cu <sup>2+</sup> and S <sup>2-</sup> ions in complicated matrices with high selectivity. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1353-1363.	3.7	57
21	Facile fabrication of a novel disposable pencil graphite electrode for simultaneous determination of promising immunosuppressant drugs mycophenolate mofetil and tacrolimus in human biological fluids. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 355-364.	3.7	27
22	A novel imidazole derived colorimetric and fluorometric chemosensor for bifunctional detection of copper (II) and sulphide ions in environmental water samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117846.	3.9	35
23	Nitrogen and sulfur co-doped graphene quantum dots/nanocellulose nanohybrid for electrochemical sensing of anti-schizophrenic drug olanzapine in pharmaceuticals and human biological fluids. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 2030-2037.	7.5	47
24	Dual-recognition molecularly imprinted aptasensor based on gold nanoparticles decorated carboxylated carbon nanotubes for highly selective and sensitive determination of histamine in different matrices. <i>Analytica Chimica Acta</i> , 2020, 1133, 58-65.	5.4	67
25	One pot fabrication of fluorescein functionalized manganese dioxide for fluorescence sensing of hydrogen peroxide in water and cosmetic samples. <i>RSC Advances</i> , 2020, 10, 17506-17514.	3.6	19
26	Enzyme-free and label-free strategy for electrochemical oxaliplatin aptasensing by using rGO/MWCNTs loaded with AuPd nanoparticles as signal probes and electro-catalytic enhancers. <i>Talanta</i> , 2020, 217, 121084.	5.5	29
27	Modification of N,S co-doped graphene quantum dots with p-aminothiophenol-functionalized gold nanoparticles for molecular imprint-based voltammetric determination of the antiviral drug sofosbuvir. <i>Mikrochimica Acta</i> , 2019, 186, 617.	5.0	73
28	One Pot Synthesis of AuPdPt Trimetallic Nanohybrid Decorated Reduced Graphene Oxide Nanosheets for Ultrasensing of Anti-Convulsant Drug Retigabine (Ezogabine). <i>Journal of the Electrochemical Society</i> , 2019, 166, H521-H526.	2.9	13
29	Fabrication of water compatible and biodegradable super-paramagnetic molecularly imprinted nanoparticles for selective separation of memantine from human serum prior to its quantification: An efficient and green pathway. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 140-148.	7.5	22
30	A Determination Approach for Rivastigmine by Lepidocrocite Nanoparticles Supported on N-Chitosan Carbon Nanosheets/Anti-Fouling PAS: Application to Biosensing. <i>Journal of the Electrochemical Society</i> , 2019, 166, H41-H46.	2.9	9
31	Applications of Fourier transform infrared spectroscopic method for simultaneous quantitation of some hypoglycemic drugs in their binary mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 213, 249-253.	3.9	21
32	Tunable ternary nanocomposite prepared by electrodeposition for biosensing of centrally acting reversible acetyl cholinesterase inhibitor donepezil hydrochloride in real samples. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 567, 76-85.	4.7	27
33	Square Wave Stripping Voltammetric Determination of Pantoprazole in Rabbit Plasma using Surfactant-based Pencil Graphite Electrode. <i>Journal of Analytical Chemistry</i> , 2019, 74, 609-616.	0.9	7
34	Facile synthesis of novel nanocomposite prepared from spinel copper ferrite and reduced graphene oxide in the presence of anti-fouling agent diethyl ammonium acid sulphate for ultrasensitive detection of rosuvastatin in human plasma. <i>Microchemical Journal</i> , 2019, 147, 1133-1140.	4.5	18
35	Spectrodensitometric determination of rivastigmine after vortex assisted magnetic solid phase extraction. <i>Microchemical Journal</i> , 2019, 147, 764-774.	4.5	5
36	Determination of donepezil in spiked rabbit plasma by high-performance liquid chromatography with fluorescence detection. <i>Royal Society Open Science</i> , 2019, 6, 181476.	2.4	4

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37	Colorimetric and fluorimetric (dual-mode) nanoprobe for the determination of pyrogallol based on the complexation with copper(II)- and nitrogen-doped carbon dots. <i>Mikrochimica Acta</i> , 2019, 186, 850.	5.0	27
38	Enhanced dispersive solid phase extraction assisted by cloud point strategy prior to fluorometric determination of anti-hepatitis C drug velpatasvir in pharmaceutical tablets and body fluids. <i>RSC Advances</i> , 2018, 8, 13292-13300.	3.6	15
39	Synthesis of Fe <sub>3</sub> O <sub>4</sub> nanobead-functionalized 8-hydroxyquinoline sulfonic acid supported by an ion-imprinted biopolymer as a recognition site for Al <sup>3+</sup> ions: estimation in human serum and water samples. <i>New Journal of Chemistry</i> , 2018, 42, 9828-9836.	2.8	22
40	Advanced sensing nanomaterials based carbon paste electrode for simultaneous electrochemical measurement of esomeprazole and diclofenac sodium in human serum and urine samples. <i>Journal of Molecular Liquids</i> , 2018, 262, 495-503.	4.9	26
41	A facile synthesis of 3D NiFe <sub>2</sub> O <sub>4</sub> nanospheres anchored on a novel ionic liquid modified reduced graphene oxide for electrochemical sensing of ledipasvir: Application to human pharmacokinetic study. <i>Biosensors and Bioelectronics</i> , 2018, 109, 164-170.	10.1	70
42	A rapid Fourier transform infrared spectroscopic method for analysis of certain proton pump inhibitors in binary and ternary mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 190, 10-14.	3.9	25
43	A novel molecularly imprinted sensing platform based on MWCNTs/AuNPs decorated 3D starfish like hollow nickel skeleton as a highly conductive nanocomposite for selective and ultrasensitive analysis of a novel pan-genotypic inhibitor velpatasvir in body fluids. <i>Journal of Molecular Liquids</i> , 2018, 271, 105-111.	4.9	41
44	Highly sensitive and selective complexation based voltammetric methods for the analysis of rabeprazole sodium in real samples. <i>RSC Advances</i> , 2017, 7, 3043-3050.	3.6	20
45	Simultaneous voltammetric analysis of anti-ulcer and D 2 -antagonist agents in binary mixture using redox sensor and their determination in human serum. <i>Materials Science and Engineering C</i> , 2017, 75, 733-741.	7.3	15
46	A New and Cost Effective Approach for Simultaneous Voltammetric Analysis of two Related Benzimidazole Drugs and their Determination in Biological Fluids. <i>Electroanalysis</i> , 2017, 29, 1643-1650.	2.9	7
47	Development of a novel and cost-effective redox sensor for voltammetric determination of pantoprazole sodium during pharmacokinetic studies. <i>Royal Society Open Science</i> , 2017, 4, 170324.	2.4	6
48	Spectrodensitometric simultaneous determination of esomeprazole and domperidone in human plasma. <i>Open Chemistry</i> , 2017, 15, 293-298.	1.9	2
49	Complexation Based Voltammetric Determination of Pantoprazole Sodium in Pharmaceutical Formulations and Rabbit Plasma. <i>Electroanalysis</i> , 2017, 29, 890-897.	2.9	21
50	Different Chromatographic and Electrophoretic Methods for Analysis of Proton Pump Inhibitors (PPIs): A Review. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2015, 38, 1639-1659.	1.0	11
51	Spectrodensitometric determination of some pharmaceutical mixtures containing proton pump inhibitors. <i>Journal of Planar Chromatography - Modern TLC</i> , 2014, 27, 217-228.	1.2	9