

Abdallah A Shaltout

List of Publications by Year in descending order

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74
papers

1,541
citations

304368

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h-index

344852

36
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77
all docs

77
docs citations

77
times ranked

1834
citing authors

#	ARTICLE	IF	CITATIONS
1	<scp>EDXRF</scp>, <scp>FTIR</scp>, and <scp>XRD</scp> characterization of low calcium oxalate urinary stones collected from arid area. X-Ray Spectrometry, 2022, 51, 214-229.	0.9	4
2	Study of half metallic ferromagnetism and thermoelectric properties of spinel chalcogenides BaCr ₂ X ₄ (X = S, Se, Te) for spintronic and energy harvesting. Journal of Materials Research and Technology, 2022, 18, 2831-2841.	2.6	15
3	Gamma radiation introduces improvement in Ac conductivity behavior and dielectric characterization of CuONPs@PVP-PVA nano matrix films prepared by one-potential laser ablation method. Optical and Quantum Electronics, 2022, 54, 1.	1.5	6
4	Bimetallic Nanocomposite of Gold/Silver Scattered in Chitosan via Laser Ablation for Electrical and Antibacterial Utilization. Journal of Electronic Materials, 2022, 51, 3811-3819.	1.0	2
5	Optical, structural, and electrical conductivity of PEO/chitosan incorporated by Se NPs produced by one-potential laser ablation. Journal of Materials Science: Materials in Electronics, 2022, 33, 12351-12358.	1.1	8
6	Spectroscopic Characterization of Urinary Stones Richening with Calcium Oxalate. Biological Trace Element Research, 2021, 199, 2858-2868.	1.9	4
7	Hydrothermal Synthesis, Anionic Dyes Preconcentration, and Energy Storage of Amino-Functionalized CuNPs Regenerated Chitosan Membrane. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 2492-2500.	1.9	0
8	Functional properties of quaternary metals (1- $\hat{\hat{x}}$)ZnMn ₂ O ₄ /(x)MgFe ₂ O ₄ as supercapacitor electrode. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	10
9	Seasonal Variability of Elemental Composition and Phytochemical Analysis of Moringa oleifera Leaves Using Energy-Dispersive X-ray Fluorescence and Other Related Methods. Biological Trace Element Research, 2021, 199, 4319-4329.	1.9	3
10	Ellipsometric study of the optical properties of TlInSeS layered crystal. Optical Materials, 2021, 114, 110958.	1.7	2
11	Exploring the structural and optical properties of FeS filled graphene/PVA blend for environmental-friendly applications. Journal of Polymer Research, 2021, 28, 1.	1.2	30
12	Magneto-optical effects of MgFe ₂ O ₄ nanoparticles in solutions and thin films of polystyrene using digital Mach-Zehnder interferometer: An optical based sensor for energy storage controller. Optik, 2021, 242, 167127.	1.4	0
13	Synchrotron X-ray fluorescence and X-ray absorption near edge structure of low concentration arsenic in ambient air particulates. Journal of Analytical Atomic Spectrometry, 2021, 36, 981-992.	1.6	5
14	Synthesis and Characterization of Eco-Friendly CMC/Maghemite Nanocomposite Films. Journal of Electronic Materials, 2021, 50, 7098-7109.	1.0	6
15	Applicability of Low-Cost Binders for the Quantitative Elemental Analysis of Urinary Stones Using EDXRF Based on Fundamental Parameter Approach. Biological Trace Element Research, 2020, 195, 417-426.	1.9	7
16	Direct analysis of essential oils by means of TXRF spectrometry. X-Ray Spectrometry, 2020, 49, 322-331.	0.9	2
17	Elemental Composition of PM _{2.5} Aerosol in a Residential-Industrial Area of a Mediterranean Megacity. Archives of Environmental Contamination and Toxicology, 2020, 78, 68-78.	2.1	20
18	Investigation of structural and optical properties of molybdenum disulfide flakes/polyvinylidene fluoride nanocomposites. Journal of Materials Research and Technology, 2020, 9, 14350-14359.	2.6	8

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19	Elemental mapping of some collected gold samples from Al-Amar gold mine in Saudi Arabia. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	0
20	Development of biological macroalgae lignins using copper based metal-organic framework for selective adsorption of cationic dye from mixed dyes. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 2984-2993.	3.6	31
21	The challenges of Se quantification in bean samples using line and continuum sources atomic absorption spectrometry. <i>Food Chemistry</i> , 2020, 328, 127124.	4.2	13
22	Spectroscopic Assessment of Platinum Group Elements of PM10 Particles Sampled in Three Different Areas in Jeddah, Saudi Arabia. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3339.	1.2	9
23	Pt@ZnO/M (M = Fe, Co, Ni or Cu): A New Promising Hybrid-Doped Noble Metal/Semiconductor Photocatalysts. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 4627-4636.	1.9	7
24	Elemental composition and source apportionment of atmospheric aerosols collected from urban and residential areas of Jordan using multi-secondary targets energy dispersive X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 170, 105900.	1.5	8
25	Effect of annealing temperature on structural and optical properties of gallium oxide thin films deposited by RF-sputtering. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	29
26	Crystalline ZnO and ZnO / TiO ₂ nanoparticles derived from tert-butyl mercaptoethyl carbamatozinc(II) chelate: Electrocatalytic studies for H ₂ generation in alkaline electrolytes. <i>International Journal of Energy Research</i> , 2020, 44, 6725-6744.	2.2	11
27	Influence of argon flow rate on structural and optical properties of transparent Nb ₂ O ₅ thin films. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	1.5	6
28	Direct Z-scheme of Cu ₂ O/TiO ₂ enhanced self-cleaning, antibacterial activity, and UV protection of cotton fiber under sunlight. <i>Applied Surface Science</i> , 2019, 479, 953-962.	3.1	90
29	Correlation between inorganic pollutants in the suspended particulate matter (SPM) and fine particulate matter (PM _{2.5}) collected from industrial and residential areas in Greater Cairo, Egypt. <i>Air Quality, Atmosphere and Health</i> , 2019, 12, 241-250.	1.5	25
30	Lead speciation of PM _{2.5} collected from Greater Cairo, Egypt and Zarqa, Jordan: An energy dispersive X-ray fluorescence and X-ray absorption near edge structure study. <i>X-Ray Spectrometry</i> , 2019, 48, 38-45.	0.9	9
31	Comparative elemental analysis of fine particulate matter (PM _{2.5}) from industrial and residential areas in Greater Cairo-Egypt by means of a multi-secondary target energy dispersive X-ray fluorescence spectrometer. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 145, 29-35.	1.5	21
32	EDXRF analysis of suspended particulate matter (SPM) from residential and industrial areas in Cairo, Egypt. <i>X-Ray Spectrometry</i> , 2018, 47, 223-230.	0.9	15
33	Influence of Niobium Pentoxide Particulates on the Properties of Brushite/Gelatin/Alginate Membranes. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 1361-1371.	1.6	11
34	Method Development and Quantitative Elemental Analysis of <i>Mentha Longifolia</i> L. Leaves from Saudi Arabia by Total Reflection X-Ray Fluorescence. <i>Analytical Letters</i> , 2018, 51, 1433-1444.	1.0	5
35	Synchrotron radiation total reflection X-ray fluorescence (SR-TXRF) and X-ray absorption near edge structure (XANES) of fractionated air particulates collected from Jeddah, Saudi Arabia. <i>Microchemical Journal</i> , 2018, 137, 78-84.	2.3	10
36	Cathodically activated Au/TiO ₂ nanocomposite synthesized by a new facile solvothermal method: An efficient electrocatalyst with Pt-like activity for hydrogen generation. <i>Electrochimica Acta</i> , 2018, 290, 404-418.	2.6	45

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37	The role of high-valent (Mo and V) cations in defect spinel iron oxide nanomaterials: Toward improving Li-ion storage. <i>Ceramics International</i> , 2018, 44, 20692-20699.	2.3	14
38	Identification of elemental composition of PM _{2.5} collected in Makkah, Saudi Arabia, using EDXRF. <i>X-Ray Spectrometry</i> , 2017, 46, 151-163.	0.9	15
39	Molecular imaging of alkaloids in khat (<i>Catha edulis</i>) leaves with MeV-SIMS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 404, 140-145.	0.6	5
40	Quantitative elemental analysis and natural radioactivity levels of mud and salt collected from the Dead Sea, Jordan. <i>Microchemical Journal</i> , 2017, 133, 352-357.	2.3	7
41	Levels of Trace Elements in Black Teas Commercialized in Saudi Arabia Using Inductively Coupled Plasma Mass Spectrometry. <i>Biological Trace Element Research</i> , 2016, 174, 477-483.	1.9	7
42	Spectroscopic Characterization of Dust-Fall Samples Collected from Greater Cairo, Egypt. <i>Archives of Environmental Contamination and Toxicology</i> , 2016, 70, 544-555.	2.1	10
43	Characterization and antibacterial capabilities of nanocrystalline CdS thin films prepared by chemical bath deposition. <i>Materials Science in Semiconductor Processing</i> , 2015, 35, 132-138.	1.9	22
44	The role of gas direction in a modified Grimm-type glow discharge for controlling the degree of crystallinity in brass alloy thin films. <i>Vacuum</i> , 2015, 121, 105-112.	1.6	7
45	Spectroscopic investigation of PM _{2.5} collected at industrial, residential and traffic sites in Taif, Saudi Arabia. <i>Journal of Aerosol Science</i> , 2015, 79, 97-108.	1.8	46
46	Method development for the determination of Cd, Cu, Ni and Pb in PM _{2.5} particles sampled in industrial and urban areas of Greater Cairo, Egypt, using high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Microchemical Journal</i> , 2014, 113, 4-9.	2.3	37
47	Determination of selenium in soil samples using high-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sample analysis. <i>Analytical Methods</i> , 2014, 6, 2870-2875.	1.3	18
48	Determination of rare earth elements in dust deposited on tree leaves from Greater Cairo using inductively coupled plasma mass spectrometry. <i>Environmental Pollution</i> , 2013, 178, 197-201.	3.7	29
49	Determinations of Sb and Mo in Cairo's dust using high-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sample analysis. <i>Atmospheric Environment</i> , 2013, 81, 18-24.	1.9	14
50	In vitro surface biocompatibility of high-content silicon-substituted calcium phosphate ceramics. <i>Open Chemistry</i> , 2013, 11, 140-150.	1.0	4
51	Determination of Cd, Cu, Ni, and Pb in Black Tea from Saudi Arabia using Graphite Furnace Atomic Absorption Spectrometry after Microwave-Assisted Acid Digestion. <i>Analytical Letters</i> , 2013, 46, 2089-2100.	1.0	20
52	On the elemental composition of PM _{2.5} in central Cairo, Egypt. <i>X-Ray Spectrometry</i> , 2013, 42, 276-283.	0.9	45
53	Elemental Composition of PM _{2.5} Particles Sampled in Industrial and Residential Areas of Taif, Saudi Arabia. <i>Aerosol and Air Quality Research</i> , 2013, 13, 1356-1364.	0.9	38
54	Comparison of three different sample preparation procedures for the determination of traffic-related elements in airborne particulate matter collected on glass fiber filters. <i>Talanta</i> , 2012, 88, 689-695.	2.9	30

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55	Hydrothermal synthesis and characterizations of Ti substituted Mn-ferrites. Journal of Alloys and Compounds, 2012, 529, 29-33.	2.8	52
56	Elucidation of fluorine in SnO ₂ :F sprayed films by different spectroscopic techniques. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 140-145.	0.8	10
57	Utilization of standardless analysis algorithms using WDXRF and XRD for Egyptian iron ore identification. X-Ray Spectrometry, 2012, 41, 355-362.	0.9	38
58	Wavelength dispersive X-ray fluorescence analysis using fundamental parameter approach of Catha edulis and other related plant samples. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 67, 74-78.	1.5	24
59	Spectroscopic Study of Heavy Metals at Different Depths in Southeastern Soil of Nile Delta, Egypt. Spectroscopy Letters, 2011, 44, 186-193.	0.5	4
60	Method development and optimization for the determination of selenium in bean and soil samples using hydride generation electrothermal atomic absorption spectrometry. Talanta, 2011, 85, 1350-1356.	2.9	42
61	Influence of the grain size on the quality of standardless WDXRF analysis of river Nile sediments. Microchemical Journal, 2011, 99, 356-363.	2.3	25
62	FTIR spectroscopic, thermal and XRD characterization of hydroxyapatite from new natural sources. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 83, 56-60.	2.0	110
63	Determination of Cu, Zn, and Se in microvolumes of liquid biological samples. Journal of Applied Spectroscopy, 2011, 77, 771-777.	0.3	1
64	The validity of commercial LIBS for quantitative analysis of brass alloy " comparison of WDXRF and AAS. Journal of Applied Spectroscopy, 2011, 78, 594-600.	0.3	7
65	Electron number density and temperature measurements in laser produced brass plasma. EPJ Applied Physics, 2010, 50, 11003.	0.3	10
66	Classical univariate calibration and partial least squares for quantitative analysis of brass samples by laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 658-663.	1.5	59
67	Sintering mechanism of blast furnace slag "kaolin ceramics. Materials & Design, 2010, 31, 3677-3682.	5.1	29
68	Removal of COOH, Cd and Pb using water hyacinth: FTIR and flame atomic absorption study. Journal of the Iranian Chemical Society, 2009, 6, 364-372.	1.2	34
69	Hydrothermal synthesis and characterization of aluminium and sulfate substituted 1.1nm tobermorites. Journal of Alloys and Compounds, 2009, 467, 332-337.	2.8	118
70	On X-ray tube spectra, the dependence on the angular and electron energy of X-rays from the targets. EPJ Applied Physics, 2007, 37, 291-297.	0.3	8
71	Sputtered-deposited thin brass films in a modified glow discharge Grimm-type source. EPJ Applied Physics, 2006, 35, 93-105.	0.3	5
72	Update of photoelectric absorption coefficients in the tables of McMaster. X-Ray Spectrometry, 2006, 35, 52-56.	0.9	15

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73	Micro Plasma Generation Using Liquid Sampling-Atmospheric Pressure Glow Discharge. Mikrochimica Acta, 2006, 155, 447-452.	2.5	15
74	Numerical description of photoelectric absorption coefficients for fundamental parameter programs. X-Ray Spectrometry, 2003, 32, 442-451.	0.9	90