

Abdallah A Shaltout

List of Publications by Year in descending order

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74
papers

1,541
citations

304368

22
h-index

344852

36
g-index

77
all docs

77
docs citations

77
times ranked

1834
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal synthesis and characterization of aluminium and sulfate substituted 1.1nm tobermorites. <i>Journal of Alloys and Compounds</i> , 2009, 467, 332-337.	2.8	118
2	FTIR spectroscopic, thermal and XRD characterization of hydroxyapatite from new natural sources. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 56-60.	2.0	110
3	Numerical description of photoelectric absorption coefficients for fundamental parameter programs. <i>X-Ray Spectrometry</i> , 2003, 32, 442-451.	0.9	90
4	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
5	Classical univariate calibration and partial least squares for quantitative analysis of brass samples by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 658-663.	1.5	59
6	Hydrothermal synthesis and characterizations of Ti substituted Mn-ferrites. <i>Journal of Alloys and Compounds</i> , 2012, 529, 29-33.	2.8	52
7	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
8	On the elemental composition of PM _{2.5} in central Cairo, Egypt. <i>X-Ray Spectrometry</i> , 2013, 42, 276-283.	0.9	45
9	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
10	Method development and optimization for the determination of selenium in bean and soil samples using hydride generation electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2011, 85, 1350-1356.	2.9	42
11	Utilization of standardless analysis algorithms using WDXRF and XRD for Egyptian iron ore identification. <i>X-Ray Spectrometry</i> , 2012, 41, 355-362.	0.9	38
12	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
13	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
14	Removal of COOH, Cd and Pb using water hyacinth: FTIR and flame atomic absorption study. <i>Journal of the Iranian Chemical Society</i> , 2009, 6, 364-372.	1.2	34
15	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
16	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
17	Exploring the structural and optical properties of FeS filled graphene/PVA blend for environmental-friendly applications. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	30
18	Sintering mechanism of blast furnace slag-kaolin ceramics. <i>Materials & Design</i> , 2010, 31, 3677-3682.	5.1	29

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19	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
20	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
21	Influence of the grain size on the quality of standardless WDXRF analysis of river Nile sediments. <i>Microchemical Journal</i> , 2011, 99, 356-363.	2.3	25
22	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
23	Wavelength dispersive X-ray fluorescence analysis using fundamental parameter approach of <i>Catha edulis</i> and other related plant samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 67, 74-78.	1.5	24
24	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
25	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
26	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
27	Elemental Composition of PM _{2.5} Aerosol in a Residential-Industrial Area of a Mediterranean Megacity. <i>Archives of Environmental Contamination and Toxicology</i> , 2020, 78, 68-78.	2.1	20
28	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
29	Update of photoelectric absorption coefficients in the tables of McMaster. <i>X-Ray Spectrometry</i> , 2006, 35, 52-56.	0.9	15
30	Micro Plasma Generation Using Liquid Sampling-Atmospheric Pressure Glow Discharge. <i>Mikrochimica Acta</i> , 2006, 155, 447-452.	2.5	15
31	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
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	Study of half metallic ferromagnetism and thermoelectric properties of spinel chalcogenides BaCr ₂ X ₄ (X = S, Se, Te) for spintronic and energy harvesting. <i>Journal of Materials Research and Technology</i> , 2022, 18, 2831-2841.	2.6	15
34	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
35	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
36	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

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37	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
38	Crystalline ZnO and $\text{ZnO} / \text{TiO}_2$ nanoparticles derived from <i>tert</i> -butyl $\text{N}-(2$ 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
39	Electron number density and temperature measurements in laser produced brass plasma. <i>EPJ Applied Physics</i> , 2010, 50, 11003.	0.3	10
40	Elucidation of fluorine in $\text{SnO}_2\text{:F}$ sprayed films by different spectroscopic techniques. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2012, 185, 140-145.	0.8	10
41	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
42	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
43	Functional properties of quaternary metals $(\text{ZnMn}_2\text{O}_4/\text{xMgFe}_2\text{O}_4)$ as supercapacitor electrode. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	10
44	Lead speciation of $\text{PM}_{2.5}$ 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
45	Spectroscopic Assessment of Platinum Group Elements of PM_{10} 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
46	On X-ray tube spectra, the dependence on the angular and electron energy of X-rays from the targets. <i>EPJ Applied Physics</i> , 2007, 37, 291-297.	0.3	8
47	Investigation of structural and optical properties of molybdenum disulfide flakes/polyvinylidene fluoride nanocomposites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14350-14359.	2.6	8
48	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
49	Optical, structural, and electrical conductivity of PEO/chitosan incorporated by Se NPs produced by one-potential laser ablation. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 12351-12358.	1.1	8
50	The validity of commercial LIBS for quantitative analysis of brass alloy – comparison of WDXRF and AAS. <i>Journal of Applied Spectroscopy</i> , 2011, 78, 594-600.	0.3	7
51	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
52	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
53	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
54	Applicability of Low-Cost Binders for the Quantitative Elemental Analysis of Urinary Stones Using EDXRF Based on Fundamental Parameter Approach. <i>Biological Trace Element Research</i> , 2020, 195, 417-426.	1.9	7

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55	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
56	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
57	Synthesis and Characterization of Eco-Friendly CMC/Maghemite Nanocomposite Films. <i>Journal of Electronic Materials</i> , 2021, 50, 7098-7109.	1.0	6
58	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. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	1.5	6
59	Sputtered-deposited thin brass films in a modified glow discharge Grimm-type source. <i>EPJ Applied Physics</i> , 2006, 35, 93-105.	0.3	5
60	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
61	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
62	Synchrotron X-ray fluorescence and X-ray absorption near edge structure of low concentration arsenic in ambient air particulates. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 981-992.	1.6	5
63	Spectroscopic Study of Heavy Metals at Different Depths in Southeastern Soil of Nile Delta, Egypt. <i>Spectroscopy Letters</i> , 2011, 44, 186-193.	0.5	4
64	In vitro surface biocompatibility of high-content silicon-substituted calcium phosphate ceramics. <i>Open Chemistry</i> , 2013, 11, 140-150.	1.0	4
65	Spectroscopic Characterization of Urinary Stones Richening with Calcium Oxalate. <i>Biological Trace Element Research</i> , 2021, 199, 2858-2868.	1.9	4
66	EDXRF, FTIR, and XRD characterization of low calcium oxalate urinary stones collected from arid area. <i>X-Ray Spectrometry</i> , 2022, 51, 214-229.	0.9	4
67	Seasonal Variability of Elemental Composition and Phytochemical Analysis of <i>Moringa oleifera</i> Leaves Using Energy-Dispersive X-ray Fluorescence and Other Related Methods. <i>Biological Trace Element Research</i> , 2021, 199, 4319-4329.	1.9	3
68	Direct analysis of essential oils by means of TXRF spectrometry. <i>X-Ray Spectrometry</i> , 2020, 49, 322-331.	0.9	2
69	Ellipsometric study of the optical properties of TlInSeS layered crystal. <i>Optical Materials</i> , 2021, 114, 110958.	1.7	2
70	Bimetallic Nanocomposite of Gold/Silver Scattered in Chitosan via Laser Ablation for Electrical and Antibacterial Utilization. <i>Journal of Electronic Materials</i> , 2022, 51, 3811-3819.	1.0	2
71	Determination of Cu, Zn, and Se in microvolumes of liquid biological samples. <i>Journal of Applied Spectroscopy</i> , 2011, 77, 771-777.	0.3	1
72	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

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73	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
74	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