

Curriculum Vita of Prof. AbdElAziz Ahmed Nayl

Personal Data:

Name			Nationality	Place of Birth	Date of Birth	Gender	Marital Status
Frist	Middle	Family	Egyptian	Fayoum	8/3/1972	male	Married
AbdElAziz	Ahmed	Nayl					
General Specialization		Chemistry					
Specialization		Inorganic Chemistry					
Current Position			Professor of Chemistry.				
Scientific Title			Professor <input checked="" type="checkbox"/> ProfessorAssociate <input type="checkbox"/> Assistant Professor <input type="checkbox"/> Lecturer <input type="checkbox"/> Other <input type="checkbox"/>				
Highest degree/ Date			Ph.D. 2004				
ID Number			2294666876				
College			Science	Department	Chamistry		

Contact Data:

Address	Sakaka, Aljouf, KSA		E-mail address (official)	aanayel@ju.edu.sa
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Home phone number	+966593718049		Personal site	
Mobile	+966593718049		Fax	
Mailbox		Postal code		

Education (Bachelor, Master, PhD, Other):

No.	Qualification	Date	Degree	University	Collage	Scientific Department	Specialization	
							General	Specific
1	Very good	1994	B.Sc.	Benha	Science	Chemistry	Chemistry	
2		2001	M.Sc.	Benha	Science	Chemistry	Chemistry	Physical Chemistry
3		2004	Ph.D	Ain Shams	Science	Chemistry	Chemistry	Inorganic Chemistry

Employment Qualifications:

Job	Job Title	University Degree	Workplace	Date		Work duty	Years of Experience
				From	To		
Academic	Professor	Professor	Chemistry Department, College of Science, Jouf University	2/2016	Up to Now	Academic and research	6
	Professor	Professor	Hot Lab. Center, Atomic Energy Authority	11/2015	Up to Now	Academic and research	7
	Associate Professor	Associate Professor	Chemistry Department, College of Science, Jouf University	09/2010	11/2015	Academic and research	5
	Associate Professor	Associate Professor	Hot Lab. Center, Atomic Energy Authority	03/2010	11/2015	Academic and research	5
	Assistant Professor	Assistant Professor	Hot Lab. Center, Atomic Energy Authority	12/2004	03/2010	Academic and research	5
	Lecturer	Lecturer	Hot Lab. Center, Atomic Energy Authority	09/2001	12/2004	Academic and research	3
	Demonstrator	Demonstrator	Hot Lab. Center, Atomic Energy Authority	10/1998	9/2001	Academic and research	3

	Professor	Professor	Chemistry Department, College of Science, Jouf University	2/2016	Up to Now	Academic and research	3
Other	Awarded of Scholarship for M.Sc. Degree		Hot Lab. Center, Atomic Energy Authority	06/1996	06/1998		
	Radiation Specialist		NM TECH. (New Mexico)	2010	Up to Now		
	Member of International Management Project for Radioactive Sealed Sources in Egypt (IMPRSS)		Atomic Energy Authority (Egypt) & Sandia Labs. (USA)	2009	Up to Now		
	P.I. for the project of "Recycling of some Spent Mobile Batteries with Extraction and Separation of some Hazardous Materials"		Jouf University	04/2012	04/2013		
	P.I. for the project of "Studies on the treatment of sewage water by activated carbon prepared from local agricultural residue available in the environment"		Jouf University	03/2015	03/2016		
	Member of the project of "Synthesis and Properties of Nanocomposite Materials"		Jouf University	3/2014	3/2015		

	Member of the project of "Application of green chemistry " Click Chemistry""		Jouf University	03/2015	03/2016		
	Member of the project of "Synthesis and properties of nanocatalysts and polymer-supported nanocatalysts for Click organic reactions"		Jouf University	03/2015	03/2016		
	P.I. for the project of "Eco-Friendly leaching, metals recovery and radioactivity assessment of Al-Jalamid phosphate ore"		Jouf University	07/2018	05/2019		
	Referee		<i>Different international Journals, as J. Hazardous materials, Desalination, Desalination & Water Treatment, Hydrometallurgy, Separation Science and Technology, International Journal of Mineral Processing, Separation and Purification Technology, Reaction Kinetics, Mechanisms and Catalysis, Organic Chemistry</i>	06/1996	06/1998		

Membership of specialized committees and associations:

No.	Committee	Period	Place
1	Member of the Egyptian Syndicate of Scientific Profession	1994 up to Now	Egypt
2	Member of the Egyptian Society of Analytical Chemistry	1994 up to Now	Egypt
3	Member of the Egyptian Society of Nuclear Science & Applications	1998 up to Now	Egypt
4	Member of the Egyptian Society of Radiation Research & Applied Sciences	2008 up to Now	Egypt

5	Member of the Commission to Assess the Technical State of Chemicals, Department of Chemistry, College of Science, Jouf University	2010 up to Now	KSA
6	Member of the Editorial Board of Aljouf Journal of Science and Engineering	2012 -2016	KSA

Training courses and workshops:

No.	courses / workshop	Specialization	Held in	Year
1	(Modern methods of searching in intellectual property databases)		Saudi Authority for Intellectual Property, KSA	Sept. 19, 2021
2	(Patent Cooperation Treaty)		Saudi Authority for Intellectual Property, KSA	Sept. 1 st , 2021
3	Respect for intellectual property		Saudi Authority for Intellectual Property, KSA	Aug. 19, 2021
4	"طرق و اساليب البحث الحديثة في قواعد بيانات الملكية الفكرية"		Saudi Authority for Intellectual Property, KSA	Aug. 15, 2021
5	(Promoting Excellence in Teaching and Learning within the University)		(Strathclyde University, Uk)	December 2-9, 2014
6	(Promoting Excellence in Teaching and Learning within the University)		(Strathclyde University, Uk)	December 2-9, 2014
7	"First Blackboard Academic Adoption Day" Blackboard and Board Middle East With Jouf University		(Jouf University, KSA)	Feb. 20, 2017
8	"Nanotechnology from concept to application"		(KACST Headquarters King Abdullah Road – Riyadh, Saudi Arabia)	November 11 - 13, 2012
9	"Developing Research Abilities: Idea Formulation And Research Management"		(College of Science – Jouf University – Saudi Arabia)	October 2012
10	Pre-TOFEL Training Course		(Cairo University, Cairo - Egypt)	Oct.- Dec. 2000
11	"Safe Sealed Source Recovery"		Southwest Research Institute, Sandia Labs., USA.	April-Jun, 2010
12	Accreditation Standards for Chemical Analysis Laboratories		(Egyptian Syndicate of Scientific Profession)	Feb., 2010
13	Systems of Calculations and Controlling used in Nuclear Materials		(Atomic Energy Authority)	April 2005
14	Safety of laboratories which used Radioisotopes and radioactive sources		(Atomic Energy Authority)	December 2003
15	Basic Safety Standards for Protection Against Ionizing Radiation		(Atomic Energy Authority)	1998

Skills:

Skills	1	
	2	
	3	
	4	

Community, cultural and volunteer contributions:

No.	activity	Type of activity	Period
1			
2			
3			

Awards and honors:

No.	Award	Awarded by	Specialization	Period
1	Selected as ONE of the TOP 2% Scientists worldwide by Stanford University, USA	Stanford University, Stanford, California, United States of America https://doi.org/10.1371/journal.pbio.3000918	Chemistry	(2019/2020, 2020/2021)
	Honoring by Jouf university, KSA	Jouf university, KSA		(2012-2017)

	Award from the Academy of Science and Technology, Cairo, Egypt “The State’s Encouragement National Prize in Inorganic Chemistry (2011/2012)”. حاصل على جائزة الدولة التشجيعية المصرية في العلوم الكيمائية لعام 2012/2011	Academy of Science and Technology, Cairo, Egypt		(2012)
	Scholarships for (M.Sc. Scholarships)	Egyptian Academy of Scientific Research and Technology		(1996-1998)
	Certificate of Appreciation & a Prize	Egyptian Atomic Energy Authority		(2005)
	Certificate of Appreciation & a Prize	Egyptian Society of Nuclear Science & Applications		(2008)
	Certificate of Appreciation & a Prize	Egyptian Society of Radiation Research & Applied Sciences		(2008)
	Certificate of Appreciation	College of Science, Jouf University, KSA		(2012)
	Certificate of Appreciation	College of Science, Jouf University, KSA		(2013)
	Certificate of Appreciation & a Prize	Jouf University, KSA		(2015)
	Certificate of Appreciation & a Prize	Jouf University, KSA		(2017)

Administrative positions

No.	Position	Organization	Country	Period

Languages:

language	Speaking	Writing	Reading
English			

Authoring Books

No.	Book Title	ISBN	Co-Author	Edition	Number of Pages	Book Language	Publication Date
1

Scientific Publications:

No.	Title	Publisher	Year of Publication
	<p><u>1-</u> Yasser Mohamed, Yousra A. El-Maradny, Ahmed K. Saleh, AbdElAziz A. Nayl, Hamada El-Gendi, Esmail M. El-Fakharany. A comprehensive insight into current control of COVID-19: Immunogenicity, vaccination, and treatment. <i>Biomedicine & Pharmacotherapy</i> 153 (2022) 113499. https://doi.org/10.1016/j.biopha.2022.113499</p> <p><u>2-</u> Hazim M. Ali, Amr A. Essawy, Ibrahim Hotan Alsohaimi, A.A. Nayl, Hossieny Ibrahim, Abd El-Naby I. Essawy, Mohammed Elmowafy, Mohammed Gamal, Tailoring the photoluminescence of capmatinib towards a novel ultrasensitive spectrofluorimetric and HPLC-DAD monitoring in human serum; investigation of the greenness characteristics. <i>Microchemical Journal</i> 181 (2022) 107838. https://doi.org/10.1016/j.microc.2022.107838.</p> <p><u>3-</u> Al-Humaidi, J.Y.; Badrey, M.G.; Aly, A.A.; Nayl, A.A.; Zayed, M.E.M.; Jefri, O.A.; Gomha, S.M. Evaluation of the Binding Relationship of the RdRp Enzyme to Novel Thiazole/Acid Hydrazone Hybrids Obtainable through Green Synthetic Procedure. <i>Polymers</i> 2022, 14, 3160. https://doi.org/10.3390/polym14153160.</p>		

- 4-** Mohamed A. Abdelgawada, Jong Min Ohb, Della G.T. Parambi, Sunil Kumar, Arafa Musa, Mohammed M. Ghoneime , **A.A. Nayl**, Ahmed H. El-Ghorab, Iqrar Ahmad, Harun Patel, Hoon Kim, Bijo Mathew, Development of bromo- and fluoro-based α , β -unsaturated ketones as highly potent MAO-B inhibitors for the treatment of Parkinson's disease. *Journal of Molecular Structure* 1266 (2022) 133545. <https://doi.org/10.1016/j.molstruc.2022.133545>.
- 5-** Asmaa Elsherbeny Moharm, Gamal A. El Naeem, Hesham M. A. Soliman, Ahmed I. Abd-Elhamid, Ali A. El-Bardan, Taher S. Kassem, **AbdElAziz A. Nayl**, Stefan Bräse. Fabrication and Characterization of Effective Biochar Biosorbent Derived from Agricultural Waste to Remove Cationic Dyes from Wastewater. *Polymers* **2022**, *14*.
- 6-** **Nayl, A.A.**; Aly, A.A.; Arafa, W.A.A.; Ahmed, I.M.; Abd-Elhamid, A.I.; El-Fakharany, E.M.; Abdelgawad, M.A.; Tawfeek, H.N.; Bräse, S. Azides in the Synthesis of Various Heterocycles. *Molecules* 2022, 27, 3716. <https://doi.org/10.3390/molecules27123716>.
- 7-** H. A. Ibrahim, N. S. Awwad, Mohamed A. Gado, Mohamed A. Hassanin, **A. A. Nayl**, Bahig M. Atia, Physico-Chemical Aspects on Uranium and Molybdenum Extraction from Aqueous Solution by Synthesized Phosphinimine Derivative Chelating Agent, Physico-Chemical Aspects on Uranium and Molybdenum Extraction from Aqueous Solution by Synthesized Phosphinimine Derivative Chelating Agent. *J Inorg Organomet Polym* (2022). <https://doi.org/10.1007/s10904-022-02374-1>.
- 8-** **Nayl AA**, Abd-Elhamid AI, Awwad NS, Abdelgawad MA, Wu J, Mo X, Gomha SM, Aly AA, Bräse S. Review of the Recent Advances in Electrospun Nanofibers Applications in Water Purification. *Polymers*. 2022; 14(8):1594. <https://doi.org/10.3390/polym14081594>.
- 9-** **Nayl AA**, Abd-Elhamid AI, Ahmed IM, Bräse S. Preparation and Characterization of Magnetite Talc (Fe_3O_4 @Talc) Nanocomposite as an Effective Adsorbent for Cr(VI) and Alizarin Red S Dye. *Materials*. 2022; 15(9):3401. <https://doi.org/10.3390/ma15093401>.
- 10-** **Nayl AA**, Abd-Elhamid AI, Awwad NS, Abdelgawad MA, Wu J, Mo X, Gomha SM, Aly AA, Bräse S. Recent Progress and Potential Biomedical Applications of Electrospun Nanofibers in Regeneration of Tissues and Organs. *Polymers*. 2022; 14(8):1508. <https://doi.org/10.3390/polym14081508>.
- 11-** **Nayl AA**, Arafa WAA, Ahmed IM, Abd-Elhamid AI, El-Fakharany EM, Abdelgawad MA, Gomha SM, Ibrahim HM, Aly AA, Bräse S, Mourad AK. Novel Pyridinium Based Ionic Liquid Promoter for Aqueous Knoevenagel Condensation: Green and Efficient Synthesis of New Derivatives with Their Anticancer Evaluation. *Molecules*. **2022**; 27(9):2940. <https://doi.org/10.3390/molecules27092940>.
- 12-** H.A. Ibrahim, B.M. Atia, N.S. Awwad, **A.A.Nayl**, H.A. Radwan, M.A.Gado. Efficient Preparation of Phosphazene Chitosan Derivatives and its Applications for the Adsorption of Molybdenum from Spent Hydrodesulfurization Catalyst. **Journal of Dispersion Science and Technology**, Accepted **2022**. <https://doi.org/10.1080/01932691.2022.2059508>
- 13-** Jehan Y. Al-Humaidi , **A. A. Nayl**, Mohamed M. Abdalla, Sobhi M. Gomhad, Synthesis and Biological Activity Evaluation of Some New Coumarin Derivatives as Potent Anticonvulsant

and CNS Depressant Agents. Polycyclic Aromatic Compounds 2022

<https://doi.org/10.1080/10406638.2022.2050268>.

- 14-** Ding Y, Chen Z, Wu J, Abd-Elhamid AI, Aly HF, Nayl AA, Bräse S. Graphene Oxide@Heavy Metal Ions (GO@M) Complex Simulated Waste as an Efficient Adsorbent for Removal of Cationic Methylene Blue Dye from Contaminated Water. *Materials*. 2022; 15(10):3657. <https://doi.org/10.3390/ma15103657>.
- 15-** Abu Elgoud, Elsayed; Aly, Mohamed I.; Hamed, Mostafa; *Nayl, AbdElAziz*, NanoTafla Nanocomposite as a Novel Low-cost and Eco-friendly Sorbent for Strontium and Europium Ions. *ACS Omega* 2022, 7, 10447–10457. <https://doi.org/10.1021/acsomega.1c07255> (IF=3.512)
- 16-** Mohamed A Abdelgawad; Ahmed A. Hamed; A. A *Nayl*; Mona Badawe; Mohammed M. Ghoneim; Ahmed M. Sayed; Hossam M. Hassan; Noha M. Gamaleldin, The chemical profiling, docking study, antimicrobial and anti-biofilm activities of the endophytic fungi *Aspergillus* sp. AP5. *Molecules* 2022,
- 17-** Mohamed A Abdelgawad, Fatma E A Mohamed, Phoebe F Lamie, Syed N A Bukhari, Mohammad M Al-Sanea, Arafa Musa, Mohammed Elmowafy, A A *Nayl*, Ahmed Karam Farag, Sameeha M Ali 8, Mohamed E Shaker, Hany A Omar, Mohammed K Abdelhameid, Manal M Kandeel, Design, synthesis, and biological evaluation of novel pyrido-dipyrimidines as dual topoisomerase II/FLT3 inhibitors in leukemia cells. *Bioorganic Chemistry* 2022, 122, 105752. <https://doi.org/10.1016/j.bioorg.2022.105752>
- 18-** Musa A, Mostafa EM, Bukhari SNA, Alotaibi NH, El-Ghorab AH, Farouk A, *Nayl AA*, Ghoneim MM, Abdelgawad MA. EGFR and COX-2 Dual Inhibitor: The Design, Synthesis, and Biological Evaluation of Novel Chalcones. *Molecules*. 2022; 27(4):1158. <https://doi.org/10.3390/molecules27041158>.
- 19-** Arafa Musa, Ehab M. Mostafa, Syed Nasir Abbas Bukhari, Nasser Hadal Alotaibi, Ahmed H. El-Ghorab, Amr Farouk, *AbdElAziz A. Nayl*, Mohammed M. Ghoneim, Mohamed A. Abdelgawad, EGFR and COX-2 Dual Inhibitor: The Design, Synthesis, and Biological Evaluation of Novel Chalcones. *Molecules* 2022, 27(4), 1158; <https://doi.org/10.3390/molecules27041158>. (IF=4.412)
- 20-** Mohamed A. Abdelgawad, Nadia A.A. Elkanzi, A.A. *Nayl*, Arafa Musa, Nasser Hadal Alotaibi, W.A.A. Arafa, Sobhi M. Gomha, Rania B. Bakr, Targeting tumor cells with pyrazolo[3,4-d] pyrimidine scaffold: A literature review on synthetic approaches, structure activity relationship, structural and target-based mechanisms, *Arabian Journal of Chemistry* 15(2022) 103781. <https://doi.org/10.1016/j.arabjc.2022.103781> (IF= 5.165)
- 21-** Sarah Hesham Rashed, A.I. Abd-Elhamid, Somia Yassin Hussain Abdalkarim, Rabah H. El-Sayed · Ali A. El-Bardan, Hesham M.A. Soliman, *A.A.Nayl*, Preparation and Characterization of Double Layered Hydroxides decorated on Graphene oxide for dye removal from aqueous solution. *Journal of Materials Research and Technology*, 17 (2022) 2782-2795.

<https://doi.org/10.1016/j.jmrt.2022.02.040> (IF= 5.039).

- 22-** Mohamed A. Abdelgawad, Khaled El-Adl, Sanadelaslam S. A. El-Hddad, Mostafa M. Elhady, Nashwa M. Saleh, Mohamed M. Khalifa, Fathalla Khedr, Mohamed Alswah, **AbdElAziz A. Nayl**, Mohammed M. Ghoneim, Nour E. A. Abd El-Sattar, Design, Molecular Docking, Synthesis, Anticancer and Anti-Hyperglycemic Assessments of Thiazolidine-2,4-diones Bearing Sulfonylthiourea Moieties as Potent VEGFR-2 Inhibitors and PPAR γ Agonists. *Pharmaceuticals* **2022**, *15*(2), 226; <https://doi.org/10.3390/ph15020226> (IF= 5.85).
- 23-** Mohamed A. Abdelgawad, Mohammed Elmowafy, Arafa Musa, Mohammad M. Al-Sanea, **AbdElAziz A. Nayl**, Mohammed M. Ghoneim, Yasmine M. Ahmed, Hossam M. Hassan, Asmaa M. AboulMagd, Heba F. Salem, Nada S. Abdelwahab, Development and Greenness Assessment of HPLC Method for Studying the Pharmacokinetics of Co-Administered Metformin and Papaya Extract, *Molecules* **27** (2022) *27*, 375. . <https://doi.org/10.3390/molecules27020375> (IF= 4.411).
- 24-** **A.A.Nayl**, A. I. Abd-Elhamid, Fabrication and characterization of a novel (GO/PAA/PAM) nanocomposite as effective adsorbent for cationic dyes, *Journal of Materials Research and Technology* **15C** (2021) 3807-3824. <https://doi.org/10.1016/j.jmrt.2021.10.013>(IF= 5.039).
- 25-** I.M. Ahmed, **A.A. Nayl**, A Novel Adsorbent functionalized with tri-octylamine (TOA) to Effective Removal of Cr(VI) from Sulfate Medium, *Journal of the Taiwan Institute of Chemical Engineers* **121C** (2021) 299-308. <https://doi.org/10.1016/j.jtice.2021.03.046> .(IF= 5.876)
- 26-** El Shahat Nashy, M.A. El-Khateeb, **A.A. Nayl**, Combining chemical coagulation process and innovative aerobic reactor for the treatment of de-hairing wastewater, *Waste and Biomass Valorization*, **12**, 2557–2564 (2021) <https://doi.org/10.1007/s12649-020-01204-0>. (IF= 3.703)
- 27-** **A.A.Nayl**, W.A.A.Arafa, A.I. Abd-Elhamid, R.A. Elkhashab, Studying and Spectral Characterization for the Separation of Lanthanides from Phosphate Ore by Organic and Inorganic Acids, *Journal of Materials Research and Technology* **9** (2020) 10276-10290. <https://doi.org/10.1016/j.jmrt.2020.07.007> (IF= 5.039).
- 28-** **A.A.Nayl**, A. I. Abd-Elhamid, A.Y. El-Moghazy, Mohamed Hussin, M.A. Abu-Saied, Ahmed A. El-Shanshory, Hesham A.M. Soliman, The nanomaterials and recent progress in biosensing systems: A review, *Trends in Environmental Analytical Chemistry* **26C** (2020) e00087. <https://doi.org/10.1016/j.teac.2020.e00087>. (I.F = 9.6)
- 29-** **A.A.Nayl**, I.M. Ahmed, A.I. Abd-Elhamid, H.F. Aly, M.F. Attallah, Selective sorption of ¹³⁴Cs and ⁶⁰Co radioisotopes using synthetic nanocopper ferrocyanide-SiO₂ materials, *Separation and Purification Technology* **234**(2020), 116060. <https://doi.org/10.1016/j.seppur.2019.116060>. ((IF=7.312)
- 30-** **A.A. Nayl**, A. I. Abd-Elhamid, M.A. Abu-Saied, Ahmed A. El-Shanshory, Hesham M.A. Soliman, Magda A. Akl, H.F.Aly, A novel method for highly effective removal and determination of binary cationic dyes in aqueous media using a cotton-graphene oxide

- composite, *RSC Adv.*, **10**(2020) 7791-7802. <https://doi.org/10.1039/C9RA09872K> (IF= 3.36).
- 31-** A.A.Nayl, A. I. Abd-Elhamid, Ahmed A. El.Shanshory, Hesham M.A. Soliman, El-Refaie Kenawy, H. F. Aly. Development of sponge/ graphene oxide composite as a filter to remove methylene blue, *Applied Surface Science* **496** (2019) 143676-143691. <https://doi.org/10.1016/j.apsusc.2019.143676>. (IF= 6.707).
- 32-** W. A. A.Arafa, A. A. Nayl, Water as a solvent for Ru-catalyzed click reaction: Highly efficient recyclable catalytic system for triazolocoumarins synthesis. *Appl. Organometal. Chem.* **2019**;e5156. <https://doi.org/10.1002/aoc.5156>. (IF=4.105)
- 33-** A.I.Abd-Elhamid, A.A.Nayl, Ahmed A.El.Shanshory, Hesham M.A. Soliman, H. F. Aly; Decontamination of organic pollutants from aquatic media using cotton fiber-graphene oxide composite utilizing batch and filter adsorption techniques: comparative study, *RSC Adv.*, **9**, 5770- 5785 (2019). <https://doi.org/10.1039/C8RA10449B>. (IF=3.36).
- 34-** Sayed M. Badawy, A. A. Nayl , Recovery of laminar LiCoO₂ materials from spent mobile phone batteries by high temperature calcining, *J. Sustain. Metall.* **5**(2019) 474–481(2019). <https://doi.org/10.1007/s40831-019-00238-6>. (IF= 2.347)
- 35-** Abd ElAziz A. Nayl, Reda A. Elkhashab, Tamer El Malah, Sobhy M. Yakout , Mohamed A. El-Khateeb, Mahmoud M. S. Ali, Hazim M. Ali; Adsorption studies on the removal of COD and BOD from treated sewage using activated carbon prepared from date palm waste. *Environ Sci Pollut Res*, **24**(28)(2017) 22284-22293. DOI:[10.1007/s11356-017-9878-4](https://doi.org/10.1007/s11356-017-9878-4). (IF=4.223).
- 36-** A.A. Nayl, *H.F. Aly* ; Extraction Equilibria and Kinetics of Ti(IV) from Leached Chloride Liquors of Ilmenite; *Rare Metals*, **36**(8), 676–684 (2017). [http://dx.doi.org/10.1007/s12598-015-0614-](http://dx.doi.org/10.1007/s12598-015-0614-0) (IF= 4.003)
- 37-** A.A. Nayl, *R.A. Elkhashab*, *Sayed M. Badawy*, M.A. El-Khateeb; Acid Leaching of Mixed L-ion Batteries; *Arabian J. Chemistry*, **10**(2), 53632-53639(2017). <https://doi.org/10.1016/j.arabjc.2014.04.001>. (IF=5.165).
- 38-** S. E. Rizzk, Mostafa M. Hamed, A. A. Nayl ; Adsorption kinetics and modeling of gadolinium and cobalt ions sorption by an Ion-Exchange Resin; *Particulate Science and Technology*, **34** (6)(2016), 716-724. <https://doi.org/10.1080/02726351.2015.1112328>. (IF= 1.619)
- 39-** I.M. Ahmed, A. A. Nayl , J.A. Daoud; Leaching and Recovery of Zinc and Copper from Brass Slag by Sulfuric Acid; *J. Saudi Chemical Society*, **20**(1), 5280-5285 (2016). <https://doi.org/10.1016/j.jscs.2012.11.003>. (IF= 3.932).
- 40-** Mostafa M Hamed , M. I Aly, A. A. Nayl ; Kinetics and Thermodynamics Studies of Cobalt, Strontium and Cesium Sorption on Marble from Aqueous Solution; *Chemistry & Ecology*, **32**(1), 68-87, (2016). <https://doi.org/10.1080/02757540.2015.1112379>. (IF= 2.211).
- 41-** S. M. Yakout, A. A. Nayl, R. A. Elkhashab, Tamer El Malah; Assessment of Rice Husk Based-Biochar for Removal of Toluene as Residual Solvent in the Pharmaceutical Industry; *J.Chem.*

Soc. Pak., 38(6),1271- 1277 (2016). (IF=0.536)

- 42-** Tamer El Malah, Hany F. Nour, **A. A. Nayl**, R. A. Elkhashab, Farouk M. E. Abdel-Megeid, and Mamdouh M. Ali: Anticancer Evaluation of Tris(triazolyl)triazine Derivatives Generated via Click Chemistry; **Aust. J. Chem.**, 69, 905–910(2016). <https://doi.org/10.1071/CH16006>. (IF= 1.171).
- 43-** **A.A. Nayl**, H.F. Aly; Solvent Extraction of V(V) and Cr(III) from the Acidic Leach Liquors of ilmenite using Aliquat 336; **Tans. Nanoferrrous Metals Society of China**, 25 (12), (2015), 4183-4191. [https://doi.org/10.1016/S1003-6326\(15\)64021-3](https://doi.org/10.1016/S1003-6326(15)64021-3). (IF= 2.917).
- 44-** M. A. Hilal, E. M. El Afifi, **A. A. Nayl** ; Investigation of some factors affecting on release of radon-222 from phosphogypsum waste associated with phosphate ore processing; **J. Environmental Radioactivity** 145 (2015) 40-47. <https://doi.org/10.1016/j.jenvrad.2015.03.030>. (IF= 2.674)
- 45-** Sayed M. Badawy, R.A. El Khashab, **A.A. Nayl** ; Synthesis, Characterization and Catalytic Activity of Cu/Cu₂O Nanoparticles Prepared in Aqueous Medium; **Bulletin of Chem. Reaction Eng & Catalysis**, 10(2),(2015), 169-174. DOI: [10.9767/bcrec.10.2.7984](https://doi.org/10.9767/bcrec.10.2.7984). (IS=1.54)
- 46-** **A.A. Nayl**, Mostafa M. Hamed, S. E. Rizk ; Selective Extraction and Separation of Metal Values from Leach Liquor of Mixed Spent Li-ion Batteries; **J. Taiwan Institute of Chem. Eng.** 55 (2015), 119-125. <https://doi.org/10.1016/j.jtice.2015.04.006>. (IF= 5.876).
- 47-** **A.A. Nayl**, M.I. Aly, I.M. Ahmed; Liquid-Liquid Extraction and Separation of Divalent Manganese and Zinc by Na-CYANEX 272 from Sulfate Solution; **Separation Science and Technology**, 49 (2014), 290–297. <https://doi.org/10.1080/01496395.2013.818037>. (IF= 2.077).
- 48-** Sayed M. Badawy, **A. A. Nayl**, R. A. El khashab, M. A. El-Khateeb; Cobalt separation from waste mobile-phone batteries using selective precipitation and chelating resin; **J. Material Cycles and Waste Management**, 16 (2014),739–746. DOI: [10.1007/s10163-013-0213-v](https://doi.org/10.1007/s10163-013-0213-v). (IF=2.863).
- 49-** I.M. Ahmed, **A.A. Nayl**, J.A. Daoud; Extraction of palladium from nitrate solution by CYANEX 471X; **International J. Mineral Processing** 101 (2011) 89–93. <https://doi.org/10.1016/j.minpro.2011.07.009>. (IF-2017= 2.257)
- 50-** **A.A. Nayl**, I.M. Ismail, H.F. Aly; Recovery of pure MnSO₄·H₂O by reductive leaching of manganese from pyrolusite ore by sulfuric acid and hydrogen peroxide; **International J. Mineral Processing** 100 (2011) 116–123. <https://doi.org/10.1016/j.minpro.2011.05.003>. (IF-2017= 2.257)
- 51-** **A. A. Nayl**; Extraction and Separation of Co(II) and Ni(II) from Acidic Sulfate Solutions Using Aliquat-336; **J. Hazardous Materials**, 173 (2010), 223–230. <https://doi.org/10.1016/j.jhazmat.2009.08.072>. (IF= 10.588).
- 52-** **A.A. Nayl**, Y.A. El-Nady, J.A. Daoud; Extraction and Separation of Zr(IV) and Hf(IV) from Nitrate Medium by some CYANEX Extractants; **Separation Science & Technology**, 44(2009),

- 1-15. <https://doi.org/10.1080/01496390903014169>. (IF= 2.077).
- 53- **A.A. Nayl**, N.S. awwad, H.F. Aly; Kinetics of acid leaching of ilmenite decomposed by KOH: Part 2. Leaching by H₂SO₄ and leaching by H₂C₂O₄; **J. Hazardous Materials**, **168** (2009), **793-799**. <https://doi.org/10.1016/j.jhazmat.2009.02.076>. (IF= 10.588).
- 54- Y.A. El-Nady, N.S. Awwad, **A.A. Nayl** ; A comparative Study of Vanadium Extraction by Aliquat-336 from Acidic and Alkaline Media with Application to Spent Catalyst; **Inter. J. Mineral Processing**, **90** (2009), **115-120**. <https://doi.org/10.1016/j.minpro.2009.03.005>. (IF-2017= 2.257).
- 55- **A.A. Nayl**, I.M. Ismail, H.F. Aly; Ammonium Hydroxide Decomposition of Ilmenite Slag; **Hydrometallurgy**, **98** (2009), **196-200**. <https://doi.org/10.1016/j.hydromet.2009.04.011>. (IF= 3.338).
- 56- **A.A. Nayl**, H. F. Aly; Acid leaching of ilmenite decomposed by KOH; **Hydrometallurgy**, **97** (2009), **86-93**. <https://doi.org/10.1016/j.hydromet.2009.01.011>. (IF= 4.156).
- 57- M.S.Alshammari, I.M.Ahmed , **A.A Nayl**, H.F.Aly, Gehad G. Mohamed, S. Abdel Rahman Mostafa ; An assessment for the recovery of lanthanides and P₂O₅ from phosphate rocks; **Advances in Environmental Biology**, **10(9)**, **49-53**,(2016). <http://creativecommons.org/licenses/by/4.0/>.
- 58- H.A. Hanafi, **A.A. Nayl**, A.A. El-Sayed; Quantitative Separation of Gallium from Zn(II), Cu(II) and Ni(II) by Utilizing High-Calcium Fly Ash; **J. Radiation Research & Applied Sciences**, **1** (2008) **123-134**. (IF=1.804)
- 59- R.A. El-Khashab, **A.A. Nayl**,., Sayed M. Badawy, Tamer El Malah: Nano -copper Oxide as Catalyst for Click Reactions; **J. Chem. Chem. Eng.** **10** (2016) **341-346**. DOI:[10.17265/1934-7375/2016.07.005](https://doi.org/10.17265/1934-7375/2016.07.005).
- 60- **A. A.Nayl**, M.I. Ahmed and H.A. Hanafi; Effect of Temperature on the Extraction of Sm(III), Eu(III) and Gd(III) from Nitric Acid Solutions Using TBP in Benzene; **Arab J. Nuclear Science and Applications**. **43** (2010),**75-82**. https://inis.iaea.org/search/search.aspx?orig_q=RN:41035950.
- 61- **A.A. Nayl**, H.F. Aly; Kinetics of acid leaching of ilmenite decomposed by KOH. Part 1. Decomposed by KOH and leaching by HCl; **Arab J. Nuclear Science and Applications**, **43(2010)**,**93-104**. https://inis.iaea.org/search/search.aspx?orig_q=RN:41053665
- 62- **A.A. Nayl**, H.F. Aly; Solvent Extraction of Titanium(IV) from Sulphuric Acid Media by CYANEX 921 and Tri-butylphosphate; **Arab J. Nuclear Sciences & Applications**, **42** (2009), **1-8**. https://inis.iaea.org/search/search.aspx?orig_q=RN:40021697
- 63- S.M. Yakout, **A.A. Nayl** ; Removal of Cationic surfactant CTAB from aqueous solution onto activated carbon from Corncob; **Carbon – Science and Technology**, **2** (2009), **107-116**.
64. **A. A.Nayl**, S.A. El-Reefy, H.F. Aly; Removal and Recovery of Uranium from Crude Phosphoric Acid; **Arab J. Nuclear Science and Applications**. **41** (2009),**21 -28**.

References:

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