

DAFTAR PUSTAKA

- Akan J.C., Abbagambo M.T., Chellube Z.M., and Abdulrahman F.I., 2012, Assessment of Pollutants in Water and Sediment Samples in Lake Chad, Baga, North Eastern Nigeria, *J. Environ. Protec.*, 3, 1428-1441.
- Al-A'raf, L.M.S., Aprilita, N.H., and Suratman, A., 2018, Study Adsorption: Immobilized Dhitizon on Nickel Slag for Adsorption Cd(II) Ion From Aqueous Solution, *Proceedings of 177th The IIER International Conference*, 20th-21st July 2018, Istanbul, Turkey.
- Ali, K.J., and Kadoomm, M.R., 2018, Determination of Zink (II) Ion Using Dhitizon by Flow Injection And Sequential Injection Techniques, *J. Chem. Sci.*, 16(1), 236-254.
- Alouani, M.E., Achhour, M.E., and Taibi, M., 2017, Potential Use Of Moroccan Fly Ash As Low Cost Adsorbent For The Removal Of Two Anionic Dyes (Indigo Carmine And Acid Orange), *J. Mar. Sci. Eng.*, 8(9), 3397-3409.
- Anaraki, M.A., and Ejhieh, A.N., 2015, Modification of an Iranian Clinoptilolite Nano-Particles by Hexadecyltrimethyl Ammonium Cationic Surfactant and Dhitizon For Removal of Pb(II) From Aqueous Solution, *J. Colloid. Interf. Sci.*, 440, 272-281.
- Atun, G., Ayar, N., Kurtoglu, A.E., and Ortaboy, S., 2019, A Comparison of Sorptive Removal of Anthraquinone And Azo Dyes Using Fly Ash From Single And Binary Solutions, *J. Hazard. Mater.*, 371, 94-107.
- Barsbay, M., Kavakl, P.A., Tilki, S., Kavakl, C., and Guven, O., 2018, Porous Cellulosic Adsorbent for the Removal of Cd (II), Pb(II) and Cu(II) Ions From Aqueous Media, *Radiat. Phys. Chem.*, 142, 70-76.
- Batool, F., Akbar, J., Iqbal, S., Noreen, S., and Bukhari, S.N.A., 2018, Study of Isothermal, Kinetic and Thermodynamic Parameters For Adsorption of Cadmium: An Overview of Linear and Nonlinear Approach and Error Analysis, *Bioinorg. Chem. Appl.*, 2018, 1-11.
- Bernard, A., 2008, Biomarkers of Metal Toxicity In Population Studies: Research Potential and Interpretation Issues. *J. Toxicol. Environ. Health, Part A*, 71, 1259- 1265.
- Blissett, R., and Rowson, N., 2012. A Review of the Multi-Component Utilisation of Coal fly Ash, *Fuel.*, 97, 1-23.

- Chand, P., Bokare, M., and Pakade, Y.B., 2017, Methyl Acrylate Modified Apple Pomace As Promising Adsorbent For the Removal of Divalent Metal Ion From Industrial Wastewater, *Environ. Sci. Pollut. Res.*, 24, 10454–10465.
- Chen, G., and Shi, L., 2017, Removal of Cd(II) And Pb(II) Ions From Natural Water Using A Low-Cost Synthetic Mineral: Behavior And Mechanisms, *RSC Adv.*, 7, 43445–43454.
- Chen, K., He, J., Li, Y., Cai, X., Zhang, K., Liu, T., Hu, T., Lin, D., Kong, L., and Liu, J., 2017, Removal of Cadmium and Lead Ions From Water by Sulfonated Magnetic Nanoparticle Adsorbents, *J. Colloid. Interf. Sci.*, 494, 307-316.
- Chu, L., Liu, C., Zhou, G., Xu, R., Tang, Y., Zeng, Z., and Luo, S., 2015, A Double Network Gel As Low Cost and Easy Recycle Adsorbent: Highly Efficient Removal of Cd(II) and Pb(II) Pollutants From Wastewater, *J. Hazard. Mater.*, 300, 153–160.
- Corradi, A., and Mutti, M., 2011, Metal Ions Affecting the Pulmonary and Cardiovascular Systems, *Met. Ions. Life Sci.*, 8, 81–105.
- Dada, A.O., Adekola, F.A., and Odebunmi, E.O., 2017, Kinetics , Mechanism , Isotherm and Thermodynamic studies of Liquid-Phase Adsorption of Pb²⁺ onto Wood Activated Carbon Supported Zerovalent iron (WAC-ZVI) Nanocomposite, *Cogent Chem.*, 68, 1-20.
- Deng, J., Li, X., Liu, Y., Zeng, G., Liang, J., Song, B., and Wei, X., 2018, Alginate-Modified Biochar Derived From Ca(II)-Impregnated Biomass: Excellent Anti-Interference Ability For Pb(II) Removal, *Ecotoxicol. Environ. Saf.*, 165, 211-218.
- Dindi, A., Quang, D.V., Vega, L.F., Nashef, E., and Abu-Zahra, M.R.M., 2019, Applications of fly Ash For CO₂ Capture, Utilization, and Storage, *J. CO₂ Util.*, 29, 82-102.
- Duruibe, J.O., Ogwuegbu, M.O.C., and Ekwurugwu, J.N., 2007, Heavy Metal Pollution And Humen Biotoxic Effects, *Int. J. Phys. Sci.*, 2, 112-118.
- El-Wakeel, S.T., El-Tawil, R.S., Abuzeid, H.A.M., and Ghany, A.E.A., 2017, Synthesis and Structural Properties Of MnO₂ As Adsorbent For The Removal of Lead (Pb²⁺) From Aqueous Solution, *J. Taiwan. Inst. Chem. Eng.*, 72, 95-103.
- Enache, D.F., Vasile, E., Simonescu, C.M., Razvan, A., Nicolescu, A., Nechifor, A.C., Oprea, O., Patescu, R.E., and Onose, C., 2017, Cysteine-

Functionalized Silica-Coated Magnetite Nanoparticles As Potential Nanoadsorbents, *J. Solid State Chem.*, 253, 318-328.

Feng, W., Wan, Z., Daniels, J., Li, Z., Xiao, G., Yu, J., Xu, D., Guo, H., Zhang, D., May, E.F., Li G., 2018, Synthesis of High Quality Zeolites From Coal Fly Ash: Mobility of Hazardous Elements And Environmental Applications, *J. Clean. Prod.*, 202, 390-400.

Filipovi, R., Ili, Z. S. and Suni, L., 2012, The Potential Of Different Plant Species For Heavy Metals Accumulation And Distribution The Potential Of Different Plant Species For Heavy Metals Accumulation And Distribution, *J. Food Agric. Environ.*, 10(1), 959-964.

Fitriana, D., 2019, Adsorpsi ion Logam Pb(II) dan Cd(II) Pada Adsorben Abu Layang Batubara (Coal Fly Ash) Terimobilisasi Ditizon, *Tesis*.

Fu, F.L., and Wang, Q., 2011, Removal of Heavy Metal Ions From Wastewaters: A Review, *J. Environ. Manage.*, 92, 407-418.

Fu, R., Liu, Y., Luo, Z., Wang, Z., Baig, S.A., and Xu, X., 2016, Adsorptive Removal of Pb(II) By Magnetic Activated Carbon Incorporated With Amino Groups From Aqueous Solutions, *J. Taiwan. Inst. Chem. Eng.*, 62, 247-258.

Gao, M., Ma, Q., Lin, Q., Chang, J., and Ma, H., 2017. Fabrication and Adsorption Properties of Hybrid fly Ash Composites, *Appl. Surf. Sci.*, 396, 400-411.

Giribabu, P., Swaminathan, G., 2016. Synergetic Degradation Of Reactive Dye Acid Red-1 By Cobalt-Doped Lignite Fly Ash, *Desalination Water Treat.*, 57, 16955-16962.

Guo, S., Duan, N., Dan, Z., Chen, G., Shi, F., and Gao, W., 2018, g-C₃N₄ Modified Magnetic Fe₃O₄ Adsorbent: Preparation, Characterization, and Performance of Zn(II), Pb(II) and Cd(II) Removal From Aqueous Solution, *J. Mol. Liq.*, 258, 225-234.

Guo, S., Jiao, P., Dan, Z., Duan, N., Zhang, J., Chen, G., and Gao., 2017, Synthesis of Magnetic Bioadsorbent For Adsorption of Zn(II), Cd(II) and Pb(II) Ions From Aqueous Solution, *Chem. Eng. Res. Des.*, 126, 217-231.

Habiba, U., Afifi, A.M., Salleh, A., Ang, B.C., and 2017, Chitosan/(Polyvinyl Alcohol)-Zeolite Electrospun Composite Nanofibrous Membrane For Adsorption of Cr⁶⁺, Fe³⁺ And Ni²⁺, *J. Hazard. Mater.*, 322, 182-194.

- Hower, J.C., Groppo, J.G., Graham, U.M., Ward, C.R., Kostova, I.J., Maroto-Valer, M.M., and Dai, S., 2017. Coal-Derived Unburned Carbons In fly Ash: A Review, *Int. J. Coal Geol.*, 179, 11–27.
- Huang, J., Yuan, F., Zeng, G., Li, X., Gu, Y., Shi, L., Liu, W., and Shi Y., 2017, Influence of pH on Heavy Metal Speciation and Removal from Wastewater Using Micellar Enhanced Ultrafiltration, *Chemosphere.*, 173, 199-206.
- Hu, X.Y., Hu, J.R., Jiang, X., and Dong, D.M., 2013, Adsorption of Cd To Natural Biofilms In The Presence of EDTA: Effect of Ph, Concentration, And Component Addition Sequence, *Environ. Sci. Pollut. Res.*, 20, 1079–1088.
- Hussein, H. K., Zinadah, O.A., Rabey, H.A., and Meerasahib, M.T., 2013, Estimation of Some Heavy Metals in Polluted Well Water and Mercury Accumulation in Broiler Organs, *Braz. Arch. Biol. Technol.*, 56(8), 767–776.
- Ji, L., Yu, H., Wang, X., Grigore, M., French, D., Gözükar, Y.M., Yu, J., Zeng, M., 2017, CO₂ Sequestration by Direct Mineralisation Using fly Ash From Chinese Shenfu Coal Fuel Process. *Technol.*, 156, 429–437.
- Jimenez, G.D., Montoya, V.H., Oyarzun, J.R., Moran, M.A.M., and Binner, E., 2019, Pb(II) Removal Using Carbon Adsorbents Prepared by Hybrid Heating System: Understanding the Microwave Heating by Dielectric Characterization and Numerical Simulation, *J. Mol. Liq.*, 277, 663-671.
- Jimping, L.I., Jinhua, G., Liang, W., and Juan, Y., 2016, Preparation of Fly ash Based Adsorbents for Removal Active Red X-3B from Dying Wastewater, *Int. Sym. Mater. App. Eng.*, 67, 1-7.
- Kanarac, M., Dolic, M., Veljonic, D., Ognjanovic, V.R., Velickovic, Z., Pavicevic, V., and Marinkovic, A., 2018, The Removal of Zn²⁺, Pb²⁺, and As(V) Ions by Lime Activated Fly Ash and Valorization Of The Exhausted Adsorbent, *J. Waste Manag.*, 78, 366–378.
- Karimi,H., 2017, Effect of pH and Initial Pb(II) Concentration on the Lead Removal Efficiency from Industrial Wastewater Using Ca(OH)₂. *Int. J. Water Wastewater Treat.*, 3(2), 1-4.
- Karaoglu, M.H., Zor, S., and Ugurlu, M., 2010, Biosorption of Cr(III) From Solutions Using Vineyard Pruning Waste, *J. Chem. Eng.*, 159, 98–106.
- Kenawy, I.M., Hafez, M.A.H., Ismail, M.A and Hashem, M.A., 2018, Adsorption of Cu(II), Cd(II), Hg(II), Pb(II) and Zn(II) From Aqueous Single Metal

Solutions by Guanyl-Modified Cellulose, *Int. J. Biol. Macromol.*, 107, 1538–1549.

Kumar T.H.V., Sivasankar, V., Fayoud, N., Oualid, H.A., and Sundramoorthy, A.K., 2018, Synthesis and Characterization of Coral-Like Hierarchical Mgo Incorporated Fly Ash Composite For the Effective Adsorption of Azo Dye From Aqueous Solution, *Appl. Surf. Sci.*, 449, 719–728.

Lalhmunsiamaa., Gupta, P.L., Jung, H., Tiwari, D., Kong, S.H., Lee, S.M., 2017, Insight Into the Mechanism of Cd(II) and Pb(II) Removal By Sustainable Magnetic Biosorbent Precursor To Chlorella Vulgaris, *J. Taiwan Inst. Chem. Eng.*, 71, 206–213.

Lalhmunsiamaa., Lee, S.M., and Tiwari, D., 2013, Manganese Oxide Immobilized Activated Carbons In the Remediation of Aqueous Wastes Contaminated With Copper(II) and Lead (II), *J. Chem. Eng.*, 225, 128–137.

Li, M., Meng, X., Huang, K., Feng, J., and Jiang., 2019, A Novel Composite Adsorbent For The Separation and Recovery of Indium From Aqueous Solutions, *Hydrometallurgy.*, 186, 73-82.

Liu, J., Mwamulima, T., Wang, Y., Fang, Y., Song, S., and Peng, C., 2017, Removal of Pb(II) And Cr(VI) From Aqueous Solutions Using the Fly Ash-Based Adsorbent Material-Supported Zero-Valent Iron, *J. Mol. Liq.*, 243, 205–211.

Lu, X., Zhang, D.X., Red, A.T., Liu, C., Yang, Z., Guo, S.S., Xiao, S.T., and Ouyang, Y.G., 2017, Synthesis Of Amidoxime-Grafted Activated Carbon Fibers For Efficient Recovery of Uranium (VI) From Aqueous Solution, *Ind. Eng. Chem. Res.*, 56, 11936–11947.

Mahmoud, M.E., Osman, M.M., Hafez, O.F., Hegazi, A.H., and Elmelegy, E., 2010, Removal and Preconcentration of Lead (II) and Other Heavy Metals From Water by Alumina Adsorbents Developed By Surface-Adsorbed-Dhitizon, *Desalination.*, 251, 123–130.

Mahmud, H. N. M. E., Huq, A. O., and Yahya, R. B., 2016, The Removal of Heavy Metal Ions From Wastewater-Aqueous Solution Using Polypyrrole-Based Adsorbents: A Review, *RSC Adv.*, 6, 14778-14791.

Matzenbacher, C.A., Garcia, A.L.H., Dos Santos, M.S., Nicolau, C.C., Premoli, S., Correa, D.S., De Souza, C.T., Niekraszewicz, L., Dias, J.F., Delgado, T.V., 2017. DNA Damage Induced by Coal Dust, Fly and Bottom Ash From Coal Combustion Evaluated Using The Micronucleus Test And Comet Assay In Vitro, *J. Hazard Mater.*, 324, 781–788.

- Moises, M.P., De-Almeida, P.P., Da-Silva, C.T.P., Rinaldi, A.W., Girotto, E.M., Meneguín, J.G., Arroyo, P.A., Bazan, R.E., Favaro, S.L., and Radovanovic, E., 2014. Synthesis of Zeolite From Multilayer Food Packing and Sugar Cane Bagasse Ash For CO₂ Adsorption. *RSC Adv.*, 4(89), 48576e48581.
- Mudasri., Karelius, K., Aprilita, N.H., and Wahyuni, E.T., 2016, Adsorption of Mercury(II) On Dhitizon-Immobilized Natural Zeolite, *J. Environ. Chem. Eng.*, 4, 1839–1849.
- Mushtaq, F., Zahid, M., Bhatti, I.A., Nasir, S., and Hussain, T., 2019, Possible Applications of Coal fly Ash in Wastewater Treatment, *J. Environ. Manag.*, 204, 27-46.
- Mwamulima, T., Zhang, X., Wang, Y., Song, S., and Peng, C., 2018, Novel Approach To Control Adsorbent Aggregation: Iron Fixed Bentonite-Fly Ash For Lead (Pb) and Cadmium (Cd) Removal From Aqueous Media, *Front. Environ. Sci. Eng.*, 12(2): 1-12.
- Nematidil, N., and Sadeghi, M., 2018, Fabrication And Characterization Of A Novel Biosorbent And Its Evaluation As Adsorbent For Heavy Metal Ions, *Polymer Bulletin.*, 1-25.
- Norvia, S., Suhartana., dan Pardoyo., 2016, Dealuminasi Zeolit Alam Menggunakan Asam (HCl dan H₂SO₄) Untuk Katalis Pada Proses Sintesis Biodisel, *Jurnal Kimia Sains dan Aplikasi.*, 19(2), 72-76.
- Oliviera, J.A., Cunha, F.A., and Ruotolo, L.A.M., 2019, Synthesis of Zeolite From Sugarcane Bagasse Fly Ash and Its Application as A Low-Cost Adsorbent To Remove Heavy Metals, *J. Clean. Prod.*, 229, 956-963.
- Othman, A.F., Othman, A.A., and Zuki, H.M., 2016, Dhitizon Modified Silver Electrode For The Determination of Metal Ions In Aqueous Solution, *Malaysian J. Anal. Sci.*, 20(1), 197 – 204.
- Patra, G., Barnwal, R., Bahera, S.K., and Meikap, B.C., 2018, Removal of Dyes From Aqueous Solution by Sorption With Fly Ash Using A Hydrocyclone, *J. Environ. Chem. Eng.*, 6, 5204–5211.
- Pawar, R.R., Laldanwngliana., Kim, M., Kim, J.G., Hong, S.M., Sawant, S.Y., and Lee, S.M., 2018, Efficient Removal of Hazardous Lead, Cadmium, and Arsenic From Aqueous Environment by Iron Oxide Modified Clay-Activated Carbon Composite Beads, *Applied Clay .*, 162, 339-350.

- Pura, S., and Atun, G., 2009, Adsorptive Removal Of Acid Blue 113 And Tartrazine By Fly Ash From Single And Binary Dye Solutions, *Sep. Sci. Technol.*, 44, 75–101.
- Putri, V.BAS., 2019, Adsorpsi Ion Cu(II) dan Cd(II) Pada Abu Layang Batubara Yang Diimobilisasi Ditizon, *Tesis*.
- Ramos R.L., Jacome, L.B., Barron, J.M., Rubio, L.F., and Coronado, R.G., 2002, Adsorption of Zinc (II) From an Aqueous Solution Onto Activated Carbon, *J. Hazard. Mater.*, 90, 27-38.
- Ray, P.Z., and Shipley, H.J., 2015, Inorganic Nano-Adsorbents For the Removal of Heavy Metals and Arsenic: A Review, *RSC Adv.*, 5, 29885-29907.
- Rusmawati., Yusuf, B., dan Alimuddin., 2018, Perbandingan Metode Destruksi Basah Dan Destruksi Kering Terhadap Analisis Logam Berat Timbal (Pb) Pada Tanaman Rumput Bebek (Lemna Minor), *Prosiding Seminar Nasional Kimia 2018*, Kimia Fmipa Unmul.
- Samadi, N., Hasanzadeh, R., Rasad, M., 2015. Adsorption Isotherms, Kinetic, and Desorption Studies On Removal of Toxic Metal Ions From Aqueous Solutions By Polymeric Adsorbent, *J. Appl. Polym. Sci.*, 132, 41642-41655.
- Sarkar, A., Ravindran, G., and Krishnamurthy, V., 2013, A Brief Review On the Effect of Cadmium Toxicity: From Cellular to Organ Level, *Int. J. Bio-Tech.*, 3(1), 17-36.
- Serrano, D., Kwapinska, M., Sánchez-Delgado, S., and Leahy, J.J., 2018, Fly Ash Characterization From Cynara Cardunculus L, Gasification, *Energy Fuels.*, 32(5), 5901-5909.
- Shakerian, F., Dadfarnia, S., Shabani, A.M., Saeidi, M., Hosseini, S.M.S., 2016, Modified Bentonite with Dhitizon As Nano Clay Mineral Adsorbent For Solid Phase Extraction of Silver Ions, *Croat. Chem. Acta.*, 89(3), 309-316.
- Sharma, H., Rawal, N., and Mathew, B.B., 2015, The Characteristics, Toxicity and Effects of Cadmium, *J. Nanosci. Nanotechnol.*, 3, 1-9.
- Shiralipour, R., Hamoule, T., and Manochehripour., 2018, Removal of Pb (II) From Contaminated Water by Bagasse Adsorbent Modified with Dhitizon, *Jundishapur. J. Health. Sci.*, 10, 1-6.
- Singan, M., Abebaw, A., and Vinodhini, S., 2005, Removal of Lead Ions From Industrial Waste Water by Using Biomaterials-A Novel Method. *Bull Chem Soc Ethiop.*, 19, 289-294.

- Singh, R., Singh, A., Bhadouria, R., and Yadav, H.K., 2017, Impact and Assessment of Heavy Metal Toxicity On Water Quality , Edible Fishes and Sediments in Lakes : A Review, *Trends In Biosciences.*, 10(8), 1551-1560.
- Soni, R., and Shukla, D.P., 2019, Synthesis of Fly Ash Based Zeolite-Reduced Graphene Oxide Composite and it' s Evaluation As an Adsorbent For Arsenic Removal, *Chemosphere.*, 219, 504-509.
- Sukandarrumidi, 2009, *Batubara dan Pemanfaatannya*, Gadjah Mada University Press, Yogyakarta.
- Sun, J., Chen, Z., Ge, M., Xu, L., and Zhai, M., 2013, Selective Adsorption Of Hg(II) by R-Radiation Synthesized Silica-Grafit-Vinylimidazole Adsorbent, *J. Hazard. Mater.*, 244, 94-101.
- Tazar, S dan Ozer, A., 2019, A Thermodynamic and Kinetic Evaluation of the Adsorption of Pb(II) Ions Using Peanut (*Arachis Hypogaeae*) Shell-Based Biochar from Aqueous Media, *Pol. J. Environ.Stud.*, 29 (1), 293-305.
- Tighadouini, S., Radi, S., Elidrissi, A., Haboubi, K., Bacquet, M., Degoutin, S., Zaghrioui, M., and Garcia, Y., 2019, Removal of Toxic Heavy Metals from River Water Samples Using A Porous Silica Surface Modified With A New B -Ketoenolic Host, *Beilstein J. Nanotechnol.*, 10, 262-273.
- Tiwari, D., Laldanwngliana., Choi, C.H., and Lee, S.M., 2011, Manganese-Modified Natural Sand In The Remediation Of Aquatic Environment Contaminated With Heavy Metal Toxic Ions, *J. Chem. Eng.*, 171, 958-966.
- Tomasz, K., Anna, K., and Ryszard, C., 2019, Effective Adsorption of Lead Ions Using Fly Ash Obtained In The Novel Circulating fluidized Bed Combustion, *Microchem. J.*, 145, 1011-1025.
- Valer, M.M.M., Lu, Z., Zhang, Y., and Tang, Z., 2008, Sorbents For CO₂ Capture From High Carbon Fly Ashes, *Waste Manag.*, 28, 2320-2328.
- Vojoudi, H., Baiei, A., Bahar, S., Ziarani, G.M., Faridbod, F., and Ganjali, M.R., 2017, A New Nano-Sorbent For Fast and Efficient Removal of Heavy Metals From Aqueous Solutions Based On Modification of Magnetic Mesoporous Silica Nanospheres, *J. Magn. Magn. Mater.*, 441, 193-203.
- Wang, J., Li, H.J., Cheng, Q.K., Yan, X.T., Cao, A.Q., and Tan, Q.Y., 2014, Treatment of Phenol Wastewater With Modified Coal Fly Ash-Fenton Reagent, *J. Adv. Mater. Res.*, 12, 623-627.

- Wang, N., Zhao, Q., and Zhang, A., 2017, Catalytic Oxidation of Organic Pollutants In Wastewater Via A Fenton-Like Process Under The Catalysis of HNO₃-Modified Coal fly Ash, *RSC Adv.*, 7, 27619-27628.
- Wu, H., Zhu, Y., Bian, S., Ko, J.H., Li, S.M., and Xu., 2018, H₂S Adsorption by Municipal Solid Waste Incineration (MSWI) Fly Ash With Heavy Metals Immobilization, *Chemosphere.*, 195, 40-47.
- Xiyili, H., Cetintas, S., and Bingol, D., 2017, Removal of Some Heavy Metals Onto Mechanically Activated Fly Ash: Modeling Approach For Optimization, Isotherms, Kinetics and Thermodynamics, *Process Saf Environ.*, 109, 288-300.
- Yao, Z.T., Ji, X.S., Sarker, P.K., Tang, J.H., Ge, L.G., Xia, M.S., and Xi, Y.Q., 2015, A Comprehensive Review On the Applications of Coal Fly Ash, *Earth-Science Reviews.*, 141, 105-121.
- Yu, H.M., Song, H., and Chen, L.M., 2011, Dhitizon Immobilized Silica Gel On-Line Preconcentration of Trace Copper With Detection By Flame Atomic Absorption Spectrometry, *Talanta.*, 85, 625-630.
- Zhang, D., and Zhao, G.S., 2013, Adsorption Behaviour of Modified Organobentonite with Dhitizon for Hg(II) in Water and Its Application for Concentration and Separation of Hg(II) in Surface Water, *Asian J. Chem.*, 25(17), 9739-9742.
- Zhang, Y., Chen, Y., Wang, C., and Wei, Y., 2014, Immobilization of 5-Aminopyridine-2-Tetrazole On Cross-Linked Polystyrene For the Preparation of A New Adsorbent to Remove Heavy Metal Ions From Aqueous Solution, *J. Hazard. Mater.*, 276, 129-137.
- Zhou, G., Liu, C., Tang, Y., Luo, S., Zeng, Z., Liu, Y., Xu, R., and Chu, L., 2015, Sponge Like Polysiloxane-Graphene Oxide Gel As A Highly Efficient and Renewable Adsorbent For Lead and Cadmium Metals Removal From Wastewater, *J. Chem. Eng.*, 280, 275-282.
- Zhu, Y., Fan, W., Zhou, T., and Li, X., 2019, Removal of Chelated Heavy Metals From Aqueous Solution: A Review of Current Methods And Mechanisms, *Sci. Total Environ.*, 678, 253-266.