An-Najah National University

SHEHDEH W. JODEH
Department of Chemistry
Nablus, Palestine
Palestine

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Higher Education

Postdoctorate 1992-1993
Chemical Vapor Deposition, Los Alamos National Labs, New Mexico, USA.

Ph.D. (Physical Chemistry) 1991
Wayne State University, Detroit, Michigan, U.S.A.

Laser Induced Fluorescence of Ablated Materials from Solids.

B. Sc. Chemical Engineering, 1987
University of Mississippi
Oxford, Mississippi (USA)

M.Sc. (Physical Chemistry), 1985
Sam Houston State University, Huntsville, Texas, U.S.A

B.Sc. (General Chemistry), 1983
Yarmouk University, Irbid, Jordan

Thesis

- MS thesis – Hydrogen Evolution Reaction of liquid a mmonia on a mmonium nitrate electrode Professors Calvin Banta
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Ph.D. thesis – Loser Induced Fluorescence of Ablated Matesels from solid

Employment

Years	Ranks	Institute
2016- present	**Distinguished Professor**	An-Najah National University
2013-2016	**Professor**	An-Najah National University
7/2007-2010	**Director**	Chemical Biological and Drugs Analysis, Najah National University
10/2007	**Associate Professor.**	An-Najah National University, Nablus, Palestine.
7/2004-10/07	**Assist. Pro.**	An-Najah National University, Nablus, Palestine
4/96 – 7/2004	**Research Scientist**	General Motors, Warren, Michigan
1/00 – 6/2004	Lecturer	Schoolcraft College, Livonia, MI Teaching Physics and Chemistry
1/98-6/98	Assistant Prof.	An-Najah University, Nablus- Palestine
10/91-10/92	Research Associate	Wayne State University Detroit, Michigan

Continuing Educations

FT-IR, Magna 560., Inductively Coupled Plasma (ICP), UHV
High Resolution GC/MS Ultima, Ion Chromatography, GC-MS, GC, AA. Purge and Trap, Spark Ablation, Excimer and Dye LASERS,HPLC, MDSC, TGA, DMA,XPS, AES, SEMS.

Awards

Islamic Bank Prize for the Best Scientific research in Palestine 2018.
Best Research Scientist. An-Najah National University, 2015

- Best reasearch papers for 2015. An-Najah National University
- Distinguished research scientist for the year 2015. An-Najah National university
- Best reasearch papers for 2014. An-Najah National University
- Distinguished research scientist for the year 2014. An-Najah National university
- Who's who higer scientific Academics 2010.
- Hisham Hijawai scientific Awards 2006

- Quality Awards: General Motors Research and Development Center 2003.
- Employment of the Quarter(GM)r: For outstanding service and being the best and going the extra mile 2002.

Expertise

- Environmetal chemistry "Pestecides, Surfactant".
- Nanomaterials and naotechnology
- Fuell Cell.
- Physical Vapor deposition (sputtering and Evaporation).
- Conductive polymers.
- Polymers modification (derivatization, cross linkns).
- Thermal and Mechanical Analysis for polymers.
- Modern chromatographic techniques (HPL, GC, GC/MS, TLC, FTIR).

Accomplishments

- Developed a new method for Environmental analysis
- Buildings chamber for physical vapor deposits.
- Develop new fire retardant polymers.
- Develop new conductive polymers.

Teaching

A. Courses taught in recent years

Course name	Years	Level
Organic Chemistry 1	2004-present	B.Sc.
Physical Chemistry 1	2004-present	B.Sc.
Physical Chemistry 2	2004-present	B.Sc.
Quantum Chemistry	2007-present	B.Sc.
Physical Pharmacy	2004- 2006	B.Sc.

Physical Pharmacy Lab	2004	B.Sc.
Physical Pharmacy Lab	2004- 2006 present	B.Sc.
Quantum Chemistry	2004- present	M.Sc.
Molecular Spectroscopy	2004- present	Ph..D
Kinetics	2004- present	Ph..D
Thermodynamic	2004- present	Ph..D

B. Supervision of Graduate Students in Recent Years:

MS students

More than 58 graduate students

Ph. D Students.

1) Ahamad Abu-Obeid Ph.D" The influence of surfactants on the adsorption of heavy metal ions using inorganic ligands in the selected contaminated soil samples in Palestine.
2) Hikmat Najem- Thermal analysis and kinetic studies of some pharmacuitical drugs.

Outside Examiner

1) Hadia Inaya "Microemulsion Preperations (Middle Phase) for Surfactant Enhancing Aquifer Remediation. MS. Thesis. Al Quds University, 2008.
2) Hala Bahar " Phase Behavior of Extended Surfactant with Cationic Hydrotrope" MS. Thesis. Al Quds University, 2008.
3) Imad Abu Aqeil " Phase Behavior of Some Pluronics with Limonene and Water" MS. Thesis. Al Quds University, 2008.
4) Areej Ghazzi" Adsorption of some Fluoroquinones on selected adsorbents. (2010).
5) Majd Masoud "treatment of domestic waste water using a constructed wetland system (2011).
6) Shereen Hamadah " a comparison methods for seperation of solid waste from Talkarem using a computer Modeling Methods. (2011).

Journals Reviewer

1) Journal of Applied Polymer Science
2) Journal of Chemical Engineering
3) Journal of Land Contamination and Reclamations
4) Journal of Analytical Chemistry
5) Journal of Analytical and Applied Pyrolysis.
6) J. Soil and Surfactants
7) Soil and Sediments Contamination.
8) Journal of Polymer Research
9) Journal of Hazardous Materials.
10) Desalination
11) J. Molecular Liquids
12) Arabian J. Chemistry
13) J. Env. Science

Research Grants and Supports.

1). Surfactant-Enhanced Biodegradation of contaminants, Palestenian Higher Education (20,000 dollars) (2007)

2) The Fate of Pharmaceuticals and Personal Care Products (PPCPs) at an effluent-dominated wastewater application site: Estrogens, Ibuprofen, and Caffeine.(20,000) Palestenian Union Universities.

3) Syntheses of low dimensional nano-sized clusters for water and wastewater treatment(20,000) Palestenian Union Universities.

4) Value added materials From olive Waste (50,000) Ministry of Agriculture.

5) ENVIRONMENTAL and PUBLIC HEALTH IMPACTS Of CHARCOAL INDUSTRY in YA'BAD , Ministry of Local Municipilities, Palestine($14,000) (2010)

6) Sustainable materials from olive industry waste: Cellulose derivatives and bioethanol. Palestine Ministry of High Education, $50,000.00

7) Purification of Grounwater from heavy toxic metals using suspended Polydentate supported ligands. Further Advancing the Blue Initiative Revolution Water Innovation Fellowship, USAID. ($17,000) (2015)

8) Purification of Grounwater from cyanide and nitrate using suspended Polydentate supported ligands.(PGCNSPL) ENVI-MED regional Programe Ministrere Des Affaires Etrangereg, France.

9) Arab Union Universities. Novel polydentate polymers for adsorption of methyleneblue from waste water($15,000). (2015)

10)) Arab Union Universities. Degradation of pesticides using electrochemistry techniques ($15,000). (2016)

11) USAID. ACCELERATION OF AQUIFER STORAGE & RECOVERY (2.1 Millions USD) 2016
12) Al-Maqdesi project (2018)
13) PAL-GER(2018
14) PADUCO 2018

14) MEDRC Fellowship program evaluation (2020) This evaluation has been done for both Jordan and Palestine. Over than 230 scholarships were promoted and we have to evaluate researchers.

MARIE SKŁODOWSKA-CURIE ACTIONS COFUND SUPPORTED BY UNIVERSITY LIBERRE DE BRUXELLE FOR RESEARCH AT DEPARTMENT OF CHEMISTRY (2020).

15) Palestine Ministry of Higher Education. Evaluation of Department of Chemistry at Hebron University. (2019)
16) Morocco Ministry of Higer Education. Medical School program at University of Ibn Zohr, Agadir Morocco (2016).
17) Al-Maqdisi (French) Analysis of volatile organic compound in Palestine (2018-2020).
18) PADUCO . Hydrochemical water analysis in Jordan valey (2018-2020).
19) Evaluation for Higher education. Bir zeit university, Erasmus plus (2020).

Active Participation in Scholarly Conferences

S, Jodeh photochemical solar fuel technologyand power to X. The third international congress on water and environmental studies December 10-12, 2020. Al Hocaymah, Morocco.

S. Jodeh. **Nanomaterials and Metal-organic frameworks (MOFs): the innovative applications in the Environment . CIMEE2020. Innovative chemistry for sustainable Env Remediation. Beirut, Lebanon Sep 2020.**

S. Jodeh. The use of Magnetic Multiwalled Carbon Nanotubes Functionalized with Chitosan for Nitrate Removal from Wastewater Pr. Shehdeh Jodeh, Department of Chemistry, An-Najah National University , Palestine Second INTERNATIONAL SYMPOSIUM On « Materials, Electrochemistry & Environment » 18 – 20 October 2018 | Tripoli, Lebanon

S. Jodeh, R. Alkowni, S. Abdelkhaleq. 3rd international conference on Global Food Security Dec 3-6, 2017, Cape Town, South Africa. **Enhanced phytoremediation of olive mill wastewater "Zibar" using plant growth promoting rhizobacteria (PGPR) with barley and clover**

Khaled Murtada[a,b], Sehdeh Jodeh[c], Mohammed Zougagh[b,d], Angel Ríos

FABRICATION OF NANO-ALUMINUM/TITANIUM DIOXIDE MODIFIED SCREEN PRINTED CARBON ELECTRODE FOR ELECTROCHEMICAL DETECTION OF VANILLIN IN FOOD SAMPLES

VIII International Congress on Analytical Nanoscience and Nanotechnology. NyNA 2017, Barcelone, Spain.

S. Jodeh' Conducting Polymers Applications in Smart Technology". First Int. Conf. Materials and Civil Engineering, Al- Hoceimah, Morocco, Dec 10-13, 2016. (Key note speakers).

S. Jodeh[a*], A. Melhem[a], O. Hamed[a], S. Diab[a], R. Salghi[b], M. Zougagh[c,d] A. Rios[d,e], D. Jodeh[f], K. Azzouai[g]. Y. Benmassaoud[d] **Synthesis and Characterization of three types of cellulose(cellulose, nanocellulose and Fe3O4-magnetic nanocellulose) from olive waste(Jeft) for the effective removal of methylene blue from aqueous solution**

Jodeh. Et al., Review on the Science and Technology of Water Desalination by Capacitive Deionization and Demineralization. 7th Jordanian International conference in chemistry, Irbid, Jordan 19-21/4/2016.

Jodeh etal., PERFORMANCE OF FOUR GREENHOUSE TOMATO CULTIVARS GROWN IN SOILLESS CULTURE IN SOUSS MASSA REGION. Water Harvesting Int Conference, Bir Zeit University, Palestine, 4/4/2016.

Jodeh et. Al, Capacitance Deionization Technology, Second Palestenian Internation Nanomaterial Conference, Nablus, 21-23/3/2016

Shehdeh Jodeh" Removal of Methylene Blue from Industrial Wastewater in Palestine Using Polysiloxane Surface Modified with Bipyrazolic Tripodal Receptor. Second International Conference on desalination using membrane technology, 26-29/11/2015. Singapore.

Shehdeh Jodeh" Fate and adsorption of phenols by polyitaconic acid. Asian. Journal of Chemistry, Hong Kong, 2-4/10/2014

Shehdeh Jodeh" The effect of pipe materials and age on The Effects of Pipe Material and Age on the Formation of Disinfection By Products (DBP) In Nablus Water Network. 243th American Chemical Society, March 19-24th 2012, San Diego, California, USA.

Shehdeh Jodeh" Tribological Properties of multilayer composites" 2nd International Graduate Studies Najah National University, 4-5/5/2011, Nablus, Palestine

Shehdeh Jodeh" Hazard Communications and General Safety Awarness" Al Quds University, Environmental Protection and Climate Change, 27-28/2/2011.

Shehdeh Jodeh " ISO – 14067 Carbon Foot Print, 8th meeting, Triesta, Italy, 14-23 Jan, 2011.

Shehdeh Jodeh " ISO – 14067 Carbon Foot Print, 7th meeting, Cairo, Egypt, 29- 2 Dec, 2010.

Shehdeh Jodeh " Thermal Performance of Materials" National Physics Laboratory of Britain, Oct 12, 2010, Coventry, Britain.

Shehdeh Jodeh " ISO – 14067 Carbon Foot Print, 6th meeting, Beirut, Lebanon 24-27 July, 2010.

Shehdeh Jodeh" Dynamical Mechanical Thermal Analysis in investigating thermal transition and modulus/temperature behavior of paints. November 13-16, 2009, Beirut, Lebanon.

Shehdeh Jodeh " ISO – 14067 Carbon Foot Print, 5th meeting, Qurtaj,Tunis 14-23 April, 2010.

shehdeh Jodeh "Adsorption And Desorption Charecteristics Of Endosulfan Pesticide in Three soils in Palestine. Palestine Second Environmantal Conference, October 11-15, 2009.

Shehdeh Jodeh" Hydrogen Ion Beam Assisted Preperation of Metal Halide of Electrodes for Batteries. Taibah International Chemistry Conference, Madinah, Saudi Arabia, March 23-25, 2009.

Shehdeh Jodeh" Charecteristics of removal of hydrophobic organic carbons from sand/mulch using nonionic surfactant.5th Congress Scientific Research in the Arab World. Fess, Morocco, 25-30 October, 2008.

Shehdeh Jodeh" Physical vapor deposition of Palladium on Stainless Steel for electrical applications for automotive.The Fifth International Jordanian chemistry conference Irbid, Jordan, June 17 -21, 2008.

Shehdeh Jodeh"Effects of Ion Chemistry and Mass on the electrical Properties of Ion implanted Pyrolyzed Polyacrylonitrile.
18th International Symposium on analytical and applied Pyrolysis.
18-23 May, 2008, Canary Island, Spain.

Shehdeh Jodeh"Effects of Ion Chemistry and Mass on the electrical Properties of Ion implanted Pyrolyzed Polyacrylonitrile.
Palestinian Third Physics Conference.
21-23 April, 2008, Alquds University.

Shehdeh Jodeh" Physical vapor deposition of Palladium on Stainless Steel for electrical applications for automotive.The Fourth Chemistry Conference Alquds University, Abu Dees, Jerusalems April 14 -15, 2008.

Shehdeh Jodeh"Sorption behavior of a non-ionic surfactant and with its capacity of desorbing naphthalene from soil. 3rd conference of the international congress of chemistry and environment ICCE07 held in Kuwait, 18-20 Nov 2007.

Shehdeh Jodeh " Physical vapor Deposition techniques for ceramics application in automotive industries" Petra International Chemistry Conference, Petra, Jordan, June 24-Jun 28, 2007.

Shehdeh Jodeh" Physical vapor deposition of Ag/Ni composites in electrical applications for automotive. Najah national University, Nablus May 7-May9, 2007.

Shehdeh Jodeh " Silver Nitrate as a deposit for electrical contacts, ASTF, Damascus Syria, Dec 11- 15, 2006

Shehdeh Jodeh " Physiscal Vapor Deposition of Ceramic/Metal Composite for Electrical Contacts" the fourth international Jordanian conference of chemistry, Irbid-Jordan, Sep 19-21,2005

Shehdeh Jodeh" Flame Retardant Intumescent Materials Using Magnesium Hydroxide" the 8th International Polymers Conference Tripoli, Libya, November 21 – 25, 2005.

Shehdeh Jodeh and rafil Basheer" Dependence of Transition Temperatures and Enthalpies of Fusion and Crystallization on Composition in Polyaniline/Polyamide Blends. Presented before the 213th American Chemical Society International Conference, San Francisco, California, March 12-16, 2000.

Rafil Basheer and Shehdeh Jodeh "Structural Transformations in Ion-Implanted, Pyrolyzed Polyacrylonitrile. Presented before the 8th International Polymer Characterization Conference, Denton, Texas, Jan 1999.

Ismat A. Abu Isa and Shehdeh Jodeh "Thermal Properties and Flammability of Fire Retardant Polymers". Presented before the 8th International Polymer Characterization Conference, Denton, Texas, Jan 1999.

Publications

N. Akartasse · K. Azzaoui · E. Mejdoubi · G. Hanbali · L. L. Elansari · S. Jodeh · B. Hammouti · W. Jodeh · A. Lamhamdi. Study and Optimization of the Synthesis of Apatitic Nanoparticles by the Dissolution/Precipitation Method Arabian Journal for Science and Engineering **https://doi.org/10.1007/s13369-021-06283-2 (2021)**

Fz. Maarouf, S. Saoiabi , K. Azzaoui, C. Chrika , H. Khalil, S. Elkaouni , S. Lhimr, O. Boubker, B. Hammoutiand S. Jodeh. Statistical optimization of amorphous iron phosphate: inorganic sol–gel synthesis-sodium potential insertion l. BMC Chemistry (2021) 15:48 **https://doi.org/10.1186/s13065-021-00774-x (2021)**

O. Dagdag · Zaki Safi · O. Hamed · S. Jodeh· Nuha Wazzan · Rajesh Haldhar · Samir K. Safi· Avni Berisha · M. El Gouri1Comparative study of some epoxy polymers based on bisphenolic and aromatic diamines: synthesis, viscosity, thermal properties computational and statistical approaches Journal of Polymer Research (2021) 28:165 **https://doi.org/10.1007/s10965-021-02530-0 (2021)**

Shehdeh Jodeh, Israa Erman, Othman Hamed, Younes Massad , Ghadir Hanbali , Subhi Samhan , Omar Dagdag, Savas¸ Kaya and Goncagül Serdaroglu, Zeolite/Cellulose Acetate (ZCA) in Blend Fiber for Adsorption of Erythromycin Residue From Pharmaceutical Wastewater: Experimental and Theoretical StudyFrontiers in Chemistry |doi: 10.3389/fchem.2021.709600 **(2021)**

F. E. Tabaght, K. Azzaoui , A. Elidrissi , O. Hamed , E. Mejdoubib, S. Jodehc, N. Akartasse , M. Lakratb, and A. Lamhamdi. New nanostructure based on hydroxyapatite modified cellulose for bone substitute, synthesis, and characterizationINTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS **https://doi.org/10.1080/00914037.2020.1725758**(2021)

Bayan Khalaf , Othman Hamed , Shehdeh Jodeh, Roland Bol , Ghadir Hanbali , Zaki Safi , Omar Dagdag , Avni Berisha and Subhi SamhanCellulose-Based Hectocycle Nanopolymers: Synthesis, Molecular Docking and Adsorption of Difenoconazole from Aqueous Medium nt. J. Mol. Sci. 2021, 22, 6090. **https://doi.org/10.3390/ijms22116090** (**2021)**

O. Dagdag , R. Hsissou , A. El Harfi, Zaki Safi, Avni Berisha , Chandrabhan Verma, Eno E. Ebenso , M.A. Quraishi, Nuha Wazzan , Shehdeh Jodeh , M. El GouriEpoxy resins and their zinc composites as novel anti-corrosive materials for copper in 3% sodium chloride solution: Experimental and computational studiesJournal of Molecular Liquids 315 (**2021)** 113757

O. Dagdag , Avni Berisha, Valbonë Mehmeti , Rajesh Haldhar , Elyor Berdimurodov , O. Hamed, S. Jodeh, Hassane Lgaz , El-Sayed. Sherif , EEpoxy coating as effective anti-corrosive polymeric material for aluminum alloys: Formulation, electrochemical and computational . J. Molecular liquids. https://doi.org/10.1016/j.molliq.2021.117886 (**2021)**

J. Lazraka , El. El Assiria, , A. Abdellaouic , A. Taleb , Z. Rais , M. Taleb. El-Hajjaji, R. Salim, J. Mabroukie , and Shehdeh Jodeh, The Inhibition Performance of trans-Cinnamaldehyde as a Green Compound for Mild Steel in Acidic 1 M HCl Medium: Correlation between Experimental and Theoretical Studies Protection of Metals and Physical Chemistry of Surfaces, 2021, Vol. 57, No. 4, pp. 834–848. © Pleiades Publishing, Ltd., **2021**.

O. Dagdag, A. El Harfi, A. El Bachiri, S. Jodeh. Thermal and Anti-Corrosive Properties of Titanium Dioxide/Epoxy Resin Composite Coating for Steel Preservation in a Marine-EnvironmentPortugaliae Electrochimica Acta 39 **(2021)** 183-198

Elhachmia Ech-Chihbi, Rajae Salim, Hassan Oudda , Fadoua El Hajjaji, Shehdeh Jodehand Mustapha TalebAssessment of Anti-corrosion Potentials of Imidazole Derivatives on some Industrial Metals in Various Environments: A ReviewPortugaliae Electrochimica Acta 39 (**2021)** 277-291

S. Alaoui Mrani, E. Ech-chihbi, N. Arrousse, Z. Rais, F. El Hajjaji, C. El Abiad, S. Radi, J. Mabrouki, M. Taleb & S. Jodeh DFT and Electrochemical Investigations on the Corrosion Inhibition of Mild Steel by Novel Schiff's Base Derivatives in 1 M HCl Solution **Arabian Journal for Science and Engineering https://doi.org/10.1007/s13369-020-05229-4 (202**

Hanan Harb[1], Shehdeh Jodeh[1,*], A. Rasem Hasan[2*], Subhi Samhan[3], Bayan Khalaf[1], Ghadir Hanbali[1] and Omar Dagdag[3]

Heavy Metal Content, Occurrence and Distribution in Soil of Al-Qilt Catchment, Palestine

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Vol 4 Issue 2 2021 : pp 9 - 24

Jaafar A., Ben El Ayouchia H., Lakbaibi Z, Regti, Jaafar N., Boussaoud A., Benallou A. and Jodeh S. Fenton degradation of binary synthetic dyes mixture: Experimental and DFT studies Research Journal of Chemistry and Environment Vol. 25 (1) January **(2021)**

Bayan Khalaf, Othman Hamed , Shehdeh Jodeh , Ghadir Hanbali , Roland Bol, Omar Dagdag 3and Subhi Samhan Novel, Environment-Friendly Cellulose-Based Derivatives for Tetraconazole Removal from Aqueous Solution Polymers **2021**, 13, 450. https://doi.org/10.3390/polym13030450

Nadia Arrousse, R. Salim, Y. Kaddouri, Abdelkader zarrouk , D. Zahri , F. El Hajjaji , R. Touzani , M. Taleb, **S. Jodeh**. The inhibition behavior of two pyrimidine-pyrazole derivatives against corrosion in hydrochloric solution: Experimental, surface analysis and in silico approach studies Arabian Journal of Chemistry **(2020)** 13, 5949–5965

Omar Dagdag, Avni Berisha, Zaki Safi, Saïd Dagdag, Majda Berrani, Shehdeh Jodeh, Chandrabhan Verma,| Eno E. Ebenso, Nuha Wazzan, Ahmed El Harfi,.Highly durable macromolecular epoxy resin as anticorrosive coating material for carbon steel in 3% NaCl: Computational supported experimental studies J Appl Polym Sci. **2020**;e49003.

Ghadir Hanbali, Shehdeh Jodeh, Othman Hamed, Roland Bol, Bayan Khalaf, Asma Qdemat and Subhi Samhan. Enhanced Ibuprofen Adsorption and Desorption on Synthesized Functionalized Magnetic Multiwall Carbon Nanotubes from Aqueous Solution Materials **2020**, 13, 3329; doi:10.3390/ma13153329

O. Dagdag, M. El Gouri, A. El Mansouri, A. Outzourhit, A. El Harfi O. Cherkaoui , A. El Bachiri, O. Hamed, S. Jodeh, G. Hanbali and B. Khalaf. Rheological and Electrical Study of a Composite Material Based on an Epoxy Polymer Containing Cyclotriphosphazene Polymers **2020**, 12, 921; doi:10.3390/polym12040921

Ghadir Hanbali, Shehdeh Jodeh, Othman Hamed, Roland Bol, Bayan Khalaf, Asma Qdemat, Subhi Samhan and Omar Dagdag Magnetic Multiwall Carbon Nanotube Decorated

with Novel Functionalities: Synthesis and Application as Adsorbents for Lead Removal from Aqueous Medium Processes **2020**, 8, 986; doi:10.3390/pr8080986

S. Jodeh1 · A. Chakir2 · Y. Massad1 · E. Roth2 Assessment of PM2.5, TVOCs, *comfort parameters*, and volatile organic solvents of paint at carpenter workshop and exposure to residential houses in Deir Ballout in Palestine International Journal of Environmental Science and Technology. **https://doi.org/10.1007/s13762-020-02877-9. (2020)**

Douglas et al.cellulose with bidentate chelating functionality Bioresources, 14(3) **2019** 6247-6266.
L. Naanaai1 · K. Azzaoui2 · A. Lamhamdi2 · E. Mejdoubi3 · M. Lakrat3 · S. Jodeh Study and Optimization of Oxygenated Apatite Obtained by Dissolution-Reprecipitation of Hydroxyapatite in a Solution of Hydrogen Peroxide Chemistry Africa **https://doi.org/10.1007/s42250-019-00100-y 2019**
Shehdeh Jodeh1* , Ghadir Hanbali1, Said Tighadouini2, Smaail Radi2,3, Othman Hamed1 and Diana Jodeh4 Removal and extraction efficiency of Quaternary ammonium herbicides paraquat

(PQ) from aqueous solution by ketoenol– pyrazole receptor functionalized silica hybrid adsorbent (SiNPz) ***(2019)*** *13:86*
Omar Dagdag 1 , Ghadir Hanbali 2, Bayan Khalaf 2, Shehdeh Jodeh 2,* , Ahmed El Harfi 1 and Abdelhadi Deghles Dual Component Polymeric Epoxy-Polyaminoamide Based Zinc Phosphate Anticorrosive Formulation for 15CDV6 Steel Coatings **2019,** 9, 463; oi:10.3390/coatings9080463
Shehdeh Jodeh, Mahmoud Shawahny, Ghadir Hanbali, Diana Jodeh & Omar Dagdag Efficiency of magnetic chitosan supported on graphene for removal of perchlorate ions from wastewater **DOI:** 10.1080/09593330.**2019**.1657963. 2019
Omar Dagdag ,1 Avni Berisha,2 Zaki Safi,3 Othman Hamed,4 Shehdeh Jodeh,4 Chandrabhan Verma,5,6 E. E. Ebenso,5,6 Ahmed El Harfi1 DGEBA-polyaminoamide as effective anti-corrosive material for 15CDV6 steel in NaCl medium: Computational and experimental studies J. Applied polymer. DOI: 10.1002/app.48402. **2019**.

Othman Hamed1 & Bahia Abu Lail1 & Abdalhadi Deghles2 & Basima Qasem2 & Khalil Azzaoui3 & Ahmad Abu Obied1 & Manuel Algarra4 & Shehdeh Jodeh1Synthesis of a cross-linked cellulose-based amine polymer and its application in wastewater urificationEnvironmental Science and Pollution Research **https://doi.org/10.1007/s11356-019-06001-4 2019**

K. Azzaouia,, E. Mejdoubi, A. Lamhamdi, M. Lakrat, O. Hamed, S. Jodeh, M. Berrabah, A. Elidrissi, I. El Meskini, M. Daoudi Preparation of hydroxyapatite biobased microcomposite film for selective removal of toxic dyes from wastewater Desalination and Water Treatment.149 **(2019)** 194–208

Shehdeh Jodeh · Inas Ibsharat · Bayan Khalaf · Othman Hamed · Diana Jodeh · Dagdag Omar. The Use of Magnetic Multiwalled Carbon Nanotubes Functionalized with Chitosan for Nitrate Removal from Wastewater. Chemistry Africa https://doi.org/10.1007/s42250-019-00056-z

Raed Alkowni, Shehdeh Jodeh, Rinad Hamed, Sobhi Samhan & Hafeth Daraghmeh. The impact of Pseudomonas putida UW3 and UW4 strains on photosynthetic activities of selected field crops under saline conditions International Journal of phytoremediationttps://doi.org/10.1080/15226514.**2019**.1583638

Issam A. Al-Khatib , Ghadeer A. Arafeh, Mutaz Al-Qutob, Shehdeh Jodeh, A. Rasem Hasan, Diana Jodeh and Michael van der Valk. Health Risk Associated with Some Trace and Some Heavy Metals Content of Harvested Rainwater in Yatta Area, Palestine. Water **2019**, 11, 238; doi:10.3390/w11020238

Nibal Al-Batsh, Issam A. Al-Khatib , Subha Ghannam, Fathi Anayah , Shehdeh Jodeh, Ghadir Hanbali , Bayan Khalaf and Michael van der Valk. Assessment of Rainwater Harvesting Systems in Poor Rural Communities: A Case Study from Yatta Area, PalestineWater **2019**, 11, 585; doi:10.3390/w11030585

O. Dagdag · L. El Gana · O. Hamed · S. Jodeh · A. El Harfi1 Anticorrosive Formulation Based of the Epoxy Resin–Polyaminoamide Containing Zinc Phosphate Inhibitive Pigment Applied on Sulfo-Tartaric Anodized AA 7075-T6 in NaCl Medium Journal of Bio- and Tribo-Corrosion **(2019)** 5:25 **https://doi.org/10.1007/s40735-019-0218-8**

Ahmad Abu Obaid, Motasem Al-Masri, Abdalhadi Deghles, Nagham Taha, Shehdeh Jodeh, Radi Smail. Functionalized C,N-Bipyrazole Receptor Grafted onto Silica Surface for Arsenic Adsorption and Its Antibacterial ActivityAmerican Journal of Analytical Chemistry, **2019**, 10, 38-53

Issam A. Al-Khatib , Ghadeer A. Arafeh, Mutaz Al-Qutob, Shehdeh Jodeh, A. Rasem Hasan, Diana Jodeh and Michael van der Valk. Health Risk Associated with Some Trace and Some Heavy Metals Content of Harvested Rainwater in Yatta Area, PalestineWater **2019**, 11, 238; doi:10.3390/w11020238

Nibal Al-Batsh, Issam A. Al-Khatib,* , Subha Ghannam, Fathi Anayah, Shehdeh Jodeh, Ghadir Hanbali, Bayan Khalaf and Michael van der Valk. Assessment of Rainwater Harvesting Systems in Poor Rural Communities: A Case Study from Yatta Area, PalestineWater **2019**, 11, 585; doi:10.3390/w11030585

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