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4552	salim@hu.edu.jo	Genotoxic and Cytotoxic effects of medicinal Plant Extracts on Mammalian cells Genotoxic and Cytotoxic effects of Pesticides on Mammalian Cells Estimation of DNA content of plant & animal cells	قسم العلوم الحياتية	كلية العلوم	salim Moh'd Mansur Abderrahman	سليم محمد منصور عبد الرحمن
	adawi@hu.edu.jo	Differential and Integral Equations.	قسم الرياضيات	كلية العلوم	Ahmad Mohammad Ahmad Adawi	احمد محمد احمد عدوي
4421	kayedas@HU.EDU.JO	Natural Products Chemistry. 2. Synthesis of Bioactive Heterocyclic Compounds	قسم الكيمياء	كلية العلوم	Kayed A.Z. Abu Safieh	كايد عبد الفتاح زين ابوصفيه
5039	shamleh@hu.edu.jo	Synthesis and characterization of novel open-chain multidentate chelating agents based on 1,10-phenanthroline derivatives and the coordination of these with transition metals. The Structural, Spectral and Magnetic properties (the induced spin-state transitions in iron (II)) of the derived coordination compounds are of interest. 2) Study of the inorganic raw materials available in Jordan. 3) Synthesis and structural characterization of tetraazamacrocyclic complexes. 4) Chemistry of oxime ligands derived from 1,2,4-triazin-6-one derivatives.	قسم الكيمياء	كلية العلوم	Ahmad Said Abushamleh	احمد سعيد عبد ابوشملة



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		5) Science education. 6) Reusability of Sewage Sludge (bio-solids) at Al-Ekeder Dumping Site in Clay Bricks Production. 7) vic-Dioxime complexes as synthetic models for biosystems.				
		Modeling biological systems. Allometric analysis Experimental design Biodegradation of organic pollutants Compartmental analysis. Biotechnology of artificial cells and organs. Biomedical materials. Biocompatibility. Biotechnology of single cell protein. Environmental aspects of biotechnology. Solid waste biotechnological conversion. Utilization of solar energy for water disinfection and the treatment of Organic pollutants.	قسم العلوم الحياتية	كلية العلوم	Ali Zuhair Mahmoud Elkarmi	
	salma@hu.edu.jo	Medical and pharmaceutical microbiology with particular interest in: 1-Variou aspects related to the mechanism of pathogenicity of Candida albicans and other yeasts.	قسم العلوم الحياتية	كلية العلوم	Khaled Husein Ahmad Abu-Elteen	خالد حسين احمد ابوالنتين

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		2-Mode of action of anti-microbial agents, especially growth and Physiology. 3-Biochemistry of microbial lipids and sterols. 4-Detection and determination of Dermatophytes. 5-Keratinophilic fungi from various sources.				
4844	salah@hu.edu.jo	Characterization of graphs, divisor graphs, special types of regular graphs.	قسم الرياضيات	كلية العلوم	Salah Said Mohammad Al-Addasi	صلاح سعيد محمد العداسي
		Plant Systematics Plant Allometry Plant Growth Models Palynolog	قسم العلوم الحياتية	كلية العلوم	Rajaa Mohammad Abdullah Abu Eideh	رجاء محمد عبدالله
	sarsak@hu.edu.jo	General Topology: Covering properties, generalized closed sets and associated separation axioms.	قسم الرياضيات	كلية العلوم	Mohammad Shawqi Omar Sarsak	محمد شوقي عمر سرك
			قسم الفيزياء	كلية العلوم	غير موجود	عبد اللطيف يوسف اسعد حمد
	hamzehah@hu.edu.jo	Experimental Physical Chemistry: Lasers, Energy Transfer in Liquids, Non-Linear Optics, Chemical Kinetics and Thermodynamics.	قسم الكيمياء	كلية العلوم	Hamzeh M. A. Abdel-Halim	حمزة محمد عبد الجابر عبد الحليم



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		Theoretical Physical Chemistry: Classical and Semi-Classical calculations of energy transfer problems in Atom-Diatomic molecules Collisions. Quantum mechanical calculations of Vibrational-Vibrational and Vibrational-Translational energy transfer between molecules.				
		<p>Evaluation of polymorphic genetic loci in the Jordanian population for forensic, clinical and ethnogenetic application. Work in this area involves the use of PCR-based techniques as well as genetic and statistical analysis to establish the allelic frequencies of polymorphic genetic markers with ultimate goal of establishing an expandable population genetic database for the Jordanian population.</p> <p>2. Application of molecular biology techniques in various fields of medical diagnosis. Work in this area involves the use of PCR-based techniques in the diagnosis of various viral, bacterial and mycotic infections, as well as male infertility for proper management and treatment.</p>	قسم العلوم الحياتية	كلية العلوم	Salem R. `Y. AL-Maloul	سالم رفعت ياسين مالول



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5590 , 5364	asurrah@hu.edu.jo	<p>My interest in research at the present time can be divided into the following classes:</p> <p>[1]Catalysis by Design: Synthesis, Characterization, and application of transition metal complexes that can be applied in homogeneous catalysis (polymerization and copolymerization of alkenes and epoxides with polar monomers, hydrogenation, and hydroformylation).</p> <p>The work is to design chiral and/or achiral transition metal complexes bearing new donor ligands. Characterization of the new complexes by IR-, NMR-, Mass-spectroscopy, UV, and X-ray single crystal analysis is also included. After that the complexes can be tested for their activity as catalysts for polymerization reactions and organic synthesis.</p> <p>[2]Polymer Chemistry: Polymerization processes of 1-olefins, dienes, cycloolefins, and copolymerization of alkenes (C2-C20) with polar monomers such as carbon monoxide and acrylate derivatives. The work here also covered the characterization of the polymer products by NMR-, IR-,</p>	قسم الكيمياء	كلية العلوم	Adnan S Abu-Surrah	عدنان محمود سليم ابوصرة



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		Differential Scanning Calorimetry (DSC), TGA, GPC, X-ray diffraction, Atomic Force Microscopy (AFM), and mechanical measurements. [3]Fabrication of molecularly imprinted polymers (MIP): towards wastewater treatment, chiral separation, and pre-concentration-solid phase extraction. [4]Electrical properties of polymer nanocomposites. [5]Heterogeneous Catalysis: Immobilization reactions of transition metal-based catalysts. Catalysis of organic reactions (polymerization, hydrogenation, hydroformylation) can be carried by supported organic reagents. [6]Bioinorganic Chemistry: Anti-Cancer platinum and palladium compounds: Synthesis, characterization and cytotoxic evaluation. [7]Kinetic and mechanism of oxidation of amino acids via transition metal complexes. [8]Re-orient university curricula to address sustainability.				
4264	musab@hu.edu.jo	Studying the extent and assessing the modes of solubility enhancement exerted	قسم الكيمياء	كلية العلوم	Musa Ibrahim Musa El-Barghouthi	موسى ابراهيم موسى



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		by aqueous cyclodextrins on some water insoluble compounds of pharmaceutical interest 2- Molecular dynamics simulation and free energy perturbation calculations of cyclodextrin inclusion complexes. 3- Protein Dynamics 4- Removal of organic and inorganic pollutants by natural and synthetic adsorbents.				البرغوثي
4360	aymani@hu.edu.jo	Modified Electrodes. - Electroanalysis. - Environmental Studies. - Application of natural Jordanian silicate adsorbents (zeolite, clay, diatomite) in metals and organics adsorption and separation. - Application of Multivariate Calibration methods in food and environment.	قسم الكيمياء	كلية العلوم	Ayman Abdulla A Issa	ايمن عبدالله عبدالكريم عيسى
	msugh@HU.EDU.JO	Developing the static fluctuation approximation technique, which is a new theoretical approach applied to many body problems. 2. Low and ultra-low temperature physics. 3. Quantum fluids. 4. Low-dimensional systems.	قسم الفيزياء	كلية العلوم	Mohamed Khaled Mousa Al-Sugheir	محمد خالد موسى الصغير



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		5. Trapped Bose and Fermi systems. 6. Nanophysics				
4410	afaneh@hu.edu.jo	Main Field: Atomic and Molecular Physics. Other Fields: Radiation Physics, Medical Physics	قسم الفيزياء	كلية العلوم	Feras .R.A. Afaneh	فراس رمضان احمد عفانه
	nabeel@HU.EDU.JO	•Isolation, purification of enzymes from animal and plant sources. •Enzyme kinetics and characterization •Isolation and identification of plant alkaloids, saponins and others.	قسم العلوم الحياتية	كلية العلوم	Nabeel Mohammad Ahmad Modallal	نبيل محمد احمد مدلل
	swasfi@hu.edu.jo	Sequence Spaces, Nuclear Maps, Fuzzy Sets, Fuzzy Analysis, Approximation Theory, Analysis, Fixed Point Theory.	قسم الرياضيات	كلية العلوم	Wasfi Ahmed Ayid Shatanawi	وصفي احمد عايد شطناوي
5408	yahya@hu.edu.jo	Current Research: 1. Application of chemometric methods (CLS, PCR, PLS, and NAS) for simultaneous determination of organic pollutants (dyes, pesticides, and detergents)	قسم الكيمياء	كلية العلوم	Yahya Salem Ahmad Al-Degs	يحيى سالم احمد الدقس



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		<p>in wastewater and active ingredients in drugs formulations.</p> <p>2.Application of natural Jordanian silicate adsorbents (zeolite, clay, diatomite) in metals and organics adsorption and separation.</p> <p>3.Developing chromatographic supports from raw Jordanian diatomite and other natural silicate minerals.</p> <p>4.Solid-phase extraction of trace metals using activated carbon, multiwalled nano-tube activated carbon and molecularly imprinted polymers (MIP).</p>				
5230	elsheikh@HU.EDU.JO	<p>Solid-phase extraction of organic and inorganic pollutants using multi-walled carbon nanotube and activated carbon.</p> <p>2. The use of molecularly imprinted polymers (MIP) for selective preconcentration of organic pollutants.</p> <p>3. Development of new microwave and ultrasound assisted digestion procedures of solid samples (such as phosphate rock) prior to the determination of certain pollutants.</p>	قسم الكيمياء	كلية العلوم	Amjad Hussein Mohamad El-Sheikh	امجد حسين محمد الشيخ



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		4. Comparing chromatographic methods with chemometric methods for simultaneous determination of organic pollutants.				
	afraij@hu.edu.jo	Parasitology immunoparasitology Invertebrate zoology Animal biology Microbiology Industrial microbiology and biotechnology	قسم العلوم الحياتية	كلية العلوم	Abeer Mahmoud Ibrahim Fraij	عبير محمود ابراهيم فريج
	lubnatahtamuni@hu.edu.jo	Deciphering the role of actin-binding proteins during the initiation of polarization of chick embryo cardiac fibroblasts and metastasis of breast cancer cells. * Etiology of male infertility with an emphasis on human sperm chromatin abnormalities, studied using flow cytometry, electron and light microscopy. * Studying the effects of oxidative stress on cell metabolism focusing on immune system and cancer biology.	قسم العلوم الحياتية	كلية العلوم	Lubna Hamid Tawfiq Tahtamouni	لبنى حميد توفيق تهتموني



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5083	rdajani@HU.EDU.JO	<p>My research interest is in cell signaling. Signal transduction refers to the biochemical processes by which cells respond to signal in their internal or external environment. Many of the biochemical pathways that conduct such information are found in all cells across widely divergent species. Thus, understanding of these regulatory systems is essential to the work of most biologists in the basic and applied life sciences. Because signal transduction mechanisms are the natural control circuits that regulate biological systems, they are targets for the development of therapeutic agents to combat disease.</p> <p>I also adopt an interdisciplinary approach towards science which through knowledge creation and information sharing provides a novel perspective towards science. This is especially important in signaling research where the complexity of the problems demands an interdisciplinary approach. Such an approach provides a wide range of connections with researches in both fields which help</p>	قسم العلوم الحياتية	كلية العلوم	Rana. B. MR. Al-Dajani	رنا باسم محمد ربحي الدجاني
	kittanih@hu.edu.jo	Survival analysis, Biostatistics, Sampling	قسم الرياضيات	كلية العلوم	Hilmi Fadel Saleh	حلمي فضل



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		theory and Applied Statistics, Statistical Computations.			Kittani	صالح كتانه
	a-saleh@hu.edu.jo	<p>Examining the potency of suggested inhibitors for the phosphatase activity of the human soluble epoxide hydrolase by molecular dynamics simulations By El-Barghouthi, Musa I.; Saleh, Abdullah I.; Ghandour, Ahmad; Ghanem, Raed; Zacharias, Martin From Journal of Molecular Structure: THEOCHEM (2010), 944(1-3), 97-104. Language: English, Database: CAPLUS</p> <p>2. Compressibility and compactibility studies of chitosan, xanthan gum, and their mixtures By Eftaiha, Ala'a F.; El-Barghouthi, Musa I.; Rashid, Iyad S.; Al-Remawi, Mayyas M.; Saleh, Abdullah I.; Badwan, Adnan A. From Journal of Materials Science (2009), 44(4), 1054-1062. Language: English, Database: CAPLUS</p> <p>3. Structural confirmation of the dihydrosphinganine and fatty acid constituents of the dental pathogen Porphyromonas gingivalis</p>	قسم الكيمياء	كلية العلوم	Abdullah Ibraheem Yousef Saleh	عبدالله ابراهيم يوسف صالح



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		<p>By Mun, JiYoung; Onorato, Amber; Nichols, Frank C.; Morton, Martha D.; Saleh, Abdullah I.; Welzel, Morgan; Smith, Michael B.</p> <p>From Organic & Biomolecular Chemistry (2007), 5(23), 3826-3833. Language: English, Database: CAPLUS</p> <p>4. Part I: Synthesis of nucleobase lactams: Putative anti-HIV drugs. Part II. Synthesis of potential soluble epoxide hydrolase (sEH) inhibitors</p> <p>By Saleh, Abdullah Ibraheem</p> <p>No Corporate Source data available (2005), 147 pp.. Language: English, Database: CAPLUS</p> <p>5. The asymmetric synthesis of 3-adenenyl and 3-guanidinyl-5-hydroxymethyl-2-pyrrolidinones</p> <p>By Saleh, Abdullah; D'Angelo, John; Smith, Michael B.</p> <p>From Abstracts of Papers, 229th ACS National Meeting, San Diego, CA, United States, March 13-17, 2005 (2005), ORGN-263. Language: English, Database: CAPLUS</p>				



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		<p>6. Substituted lactams as putative anti-viral compounds By D'Angelo, John; Saleh, Abdullah; Smith, Michael B. From Abstracts of Papers, 227th ACS National Meeting, Anaheim, CA, United States, March 28-April 1, 2004 (2004), ORGN-605. Language: English, Database: CAPLUS</p> <p>7. Asymmetric synthesis of nucleobase lactams By D'Angelo, John; Saleh, Abdullah; Mielguz, Rafal; Smith, Michael B. From Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), ORGN-317. Language: English, Database: CAPLUS</p>				
4495	jsweileh@hu.edu.jo	Analytical method development 2. Sample treatment and pre-concentration 3. Speciation of metals and non-metals 4. Environmental analysis	قسم الكيمياء	كلية العلوم	Jamal Amin Saleh Sweileh	جمال امين صالح صويلح
4932	zmagablh@hu.edu.jo	Metrics space, fixed point theory, application of fixed point theory	قسم الرياضيات	كلية العلوم	Zead Yousef Soleman Mustafa	زياد يوسف سليمان



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						مصطفى
	mohammadm_f@hu.edu.jo	Doctoral dissertation: "Polynomial and Finite-Type Invariants of ?-curves". - Research Interest: Algebraic topology: Invariants of knots, links and spatial graphs. .	قسم الرياضيات	كلية العلوم	Moh'd Mahmoud Fares Yasein	محمد محمود فارس ياسين
4974	bader@hu.edu.jo	Patents • PCT Int.Appl.(2005) Bader A. B. Salameh, Hakon Leffler, Ulf J. Nilsson " Preparation of 3-(1,2,3-triazol-1-yl)-1-thio galactosides as antitumor and anti-inflammatory agents and for use as hydrolytically stable inhibitors of galectin-3" PCT Int. Appl. (2005), 60 pp. CODEN: PIXXD2 WO 2005113569 A1 20051201 CAN 144:7029 AN 2005:1259387 CAPLUS. 2. Published papers • Bader. A. Salameh, Ian Cumpstey, Andres. Sundin, Hakon. Leffler, Ulf. J.	قسم الكيمياء	كلية العلوم	BADER A. B. SALAMEH	بدر عبد الرحيم بدر سلامه



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		<p>Nilsson "1H-1,2,3-Triazol-1-yl galactose derivatives as high affinity galectin-3 inhibitors ", Bioorg. Med. Chem. 2010, 18, 5367-5378.</p> <ul style="list-style-type: none">• Steen Uldall Hansen, Marek Barath, Bader A. B. Salameh, Robin G. Pritchard, William T. Stimpson, John M. Gardiner, and Gordon C. Jayson "Scalable Synthesis of L-Iduronic Acid Derivatives via Stereocontrolled Cyanohydrin Reaction for Synthesis of Heparin-Related Disaccharides", Org. Lett. , 2009, 11, 4528-4531.• Johan Tejler, Bader Salameh, Hakon Leffler and Ulf J. Nilsson "Fragment-based development of triazole-substituted O-galactosyl aldoximes with fragment-induced affinity and selectivity for galectin-3", Org. Biomol. Chem. 2009, 7, 3982-3990.• B. A. Salameh, A. Sundin, H. Leffler, U. J. Nilsson " Thioureido N-Acetyllactosamine derivatives as potent galectin-7 and 9N inhibitors", Bioorg.				



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		<p>Med. Chem. 2006, 1215-1220.</p> <ul style="list-style-type: none">• José Fuentes, Bader A. B. Salameh, M. Angeles Pradera, Francisco J. Fernández de Córdoba, Consolación Gasch, "Stereocontrolled synthesis of thiohydantoin spironucleosides from sugar spiroacetals" Tetrahedron, 2006, 97-111.• Bader A. Salameh, Hakon Leffler, Ulf J. Nilsson, "3-[1,2,3]-Triazol-1-yl-1-thiogalactosides as small, efficient, and hydrolytically stable inhibitors of galectin-3", Bioorg. Med. Chem. Lett. 2005, 3344-3346.• Consolación Gasch, Bader A. B. Salameh, M. Angeles Pradera, José Fuentes, "Isothiocyanatoulosonates, a new type of glycosyl isothiocyanate useful for the stereocontrolled synthesis of thiohydantoin spironucleosides" Tetrahedron lett. 2001, 42, 8615-8617.• Consolación Gasch , M. Angeles Pradera, Bader A. B. Salameh, José L. Molina, José Fuentes, "Isothiocyanato derivatives of				



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		<p>sugars in the stereoselective synthesis of spironucleosides and spiro-C-glycosides", Terahedron :Asymmetry 2001, 12, 1267-1277.</p> <ul style="list-style-type: none">• Consolaci?n Gasch , M. Angeles Pradera, Bader A. B. Salameh, José L. Molina, José Fuentes, "Chiral thioxohydroimidazoles with two sugar moieties. N-, C-, and spironucleosides", Terahedron: Asymmetry, 2000, 11, 435-452.• Leila Hanaineh-Abdelnour, Bader A. Salameh, "Generality and scope of the syntheses of 2-arylpyrrolo[3,4-b]quinoxaline-1,3dione from 2,3- dichloro-N-arylmaleimides II." , Heterocycles , 1999, 51(12), 2931-2940.				
5104	ebsoul@hu.edu.jo	Environmental stress physiology of plants	قسم العلوم الحياتية	كلية العلوم	Emad Yousef Soleiman Bsoul	عماد يوسف سليمان بصول



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	salyones@hu.edu.jo	<p>Current research:</p> <p>1) Electromagnetic scattering by small particles</p> <p>Production of artificial small particles with optimum extinction efficiencies (absorption or scattering) has been interested for electromagnetic shielding applications. The parameters controlled in this process are the shape, size and material contents (complex index of refraction) of such particles, fibers and discs with multilayer constructions are candidates for this process. Long and short wavelength regions are involved in this production process.</p> <p>a) Fiber Shape particles Electromagnetic scattering by small particles with specific shapes (fibers, discs, etc.) has recently elicited interest over the long and short wavelengths spectral regions. These particles can be used as obscurant materials when manufactured with specific geometry and material contents. I studied the electromagnetic</p>	قسم الفيزياء	كلية العلوم	SHARHABEEL SALEH MOHAMMAD ALYONES	شرحبيل صالح محمد اليونس



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		<p>response by fiber like particles numerically and experimentally. I have produced an efficient numerical code which calculates the scattering and absorption cross section using two different numerical approaches (Alyones Code). Research is still active at New Mexico state university to produce high efficient fiber like particles in the visible and infrared for electromagnetic shielding application. This research is funded by the Edgewood Chemical and Biological Center, U. S. Army through contract DAAD13-03-D-0012 with Science and Technology Corp.</p> <p>b) Disc Shape particles Currently, I am studying the electromagnetic response of disc shape particles numerically and experimentally in collaboration with Prof. Charles Bruce, NMSU. The existing numerical solutions tend to be not working for all disc parameters (size, aspect ratio and index of refraction). This research is funded by the Edgewood Chemical and Biological Center, U. S. Army through contract DAAD13-03-D-0012 with Science and Technology Corp.</p>				



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		2) Magnetism I am studying the magnetism in strongly correlated electron systems (f-electron systems and transition metal-oxides) under multi extreme conditions (low temperature, high magnetic field and high pressure) using neutron and x-ray scattering techniques and bulk measurements. This research is performed through collaboration between the Hashemite university, New Mexico state University, Los Alamos national laboratory and NIST.				
	ismailf@hu.edu.jo	Chemical Speciation, Pre-concentration, Separation, Purification and Characterization of Organic and Inorganic Pollutants. Trace and Ultratrace Analysis, ICP-MS (PerkinElmer SCIEX ELAN DRC), Electrochemistry (Autolab-instruments) and Chemometric analysis.	قسم الكيمياء	كلية العلوم	Ismail Issa Mohammad Fafous	اسماعيل عيسى محمد الفسفوس
	dandelion@hu.edu.jo	Population plant biology, Applied plant biology, Plant biotic interactions, Weed biology and Biocontrol, Biopesticides, Aerobiology (Fungal spores and Pollen	قسم العلوم الحياتية	كلية العلوم	Mohammed H. M. Abu - Dieyeh	محمد حمدان محمود ابو دية



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4683	naser07	grains).	قسم العلوم الحياتية	كلية العلوم		ناصر مصطفى احمد البنا
	emadm_a@hu.edu.jo		قسم الكيمياء	كلية العلوم		عماد محمد عبد الرحيم حامد
	mabushawiesh@hu.edu.jo	Robust Statistical Methods Statistical Poces Control Artificial Neural Networks Time Series Analysis and Forecasting	قسم الرياضيات	كلية العلوم	Moustafa Omar Ahmed Abu-shawiesh	مصطفى عمر احمد ابو شاويش
5076	jamaldawoud@hu.edu.jo	Computer simulations of molecules at solid surfaces. 2.Currently examining the structures of multilayers adsorbed on ionic crystal surfaces such as the D2/MgO(001) and D2/NaCl(001) systems. 3.NMR spectroscopy by studying the effect of solvent and molecular geometry on the spin-spin coupling constants. 4.Transition states structures of small molecules adsorbed on Zeolites.	قسم الكيمياء	كلية العلوم	Jamal Nimer Eid Dawoud	جمال نمر عيد داود
4724	shorouq@hu.edu.jo	“Prediction of the optimum harvest date	قسم العلوم الحياتية	كلية العلوم	Shorouq Salah	شروق صلاح

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التلفون	الايمل	الاهتمامات البحثية	القسم	الكلية	الاسم باللغة الإنجليزية	اسم عضو هيئة التدريس
		(OHD) for three apple (Malus domestica Borkh) cultivars in AL-Shoubak area in Jordan by a newly established starch conversion chart"			Mahmoud Jaradat	محمود جرادات
4462	masafi@hu.edu.jo	Mathematical Biology, Dynamical Systems, Differential Equations.	قسم الرياضيات	كلية العلوم	Mohammad Ahmad Safi	محمد احمد عبدالرحمن صافي
	Nedal@hu.edu.jo	My principal research interests are in the field of Digital Signature Schemes, Number Theory, Cryptography, Fixed Point theorem and Applications of Fixed point Theorem.	قسم الرياضيات	كلية العلوم	Nedal Mohammad Fandi Tahat	نضال محمد فندي طاهات
5212 , 4923	seba.shbailat@hu.edu.jo	Understanding the evolutionary and developmental basis underlying the growth of vertebrate and invertebrate embryos. Determining the genotoxic and cytotoxic effects of medicinal plant extracts on mammalian cells	قسم العلوم الحياتية	كلية العلوم	Seba Jamal Najem Shbailat	صبا جمال نجم الشبيلات
	Rania.Shaqboua@hu.edu.jo	zero-divisor graph	قسم الرياضيات	كلية العلوم	Rania .Yasin.Mohammad .Shaqbou'a	رانيا ياسين محمد شقبوعه



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التلفون	الايمل	الاهتمامات البحثية	القسم	الكلية	الاسم باللغة الإنجليزية	اسم عضو هيئة التدريس
	Ala@hu.edu.jo	Applied Mathematics	قسم الرياضيات	كلية العلوم	Ala'.Mohammad. Abdellatif .Qadomi	الاء محمد عبداللطيف قدومي
5383	rbadarneh@hu.edu.jo	Finite difference method. 2. Numerical methods to solve boundary value problems for partial differential equation. 3. Generalization of explicit and implicit formula to approximate a general partial derivative to functions of k variables. 4.Continuous Genetic Algorithms. 5. Fractional Derivative.	قسم الرياضيات	كلية العلوم	Ramzi Bader Helal Albadarneh	رمزي بدر هلال البدارنه
4593	Analysis, Functional analysis and its applications, Inequalities, Operator theory, Matrix analysis and its applications, Number Theory.	• • Analysis, Functional analysis and its applications, Inequalities, Operator theory, Matrix analysis and its applications, Number Theory.	قسم الرياضيات	كلية العلوم	Feras Ali Suliman Bani Ahmad	فراس علي سليمان بني احمد
	Saud@hu.edu.jo	Complex analysis, Hilbert Spaces, Entire Functions, Sampling Theory.	قسم الرياضيات	كلية العلوم	Sa'ud Shehab Mohammad Al-Sa'di	سعود شهاب محمد السعدي
4971		Applied Mathematics	قسم الرياضيات	كلية العلوم	Maysam Mohammad Ali Ali Abu Dalou	ميسم محمد علي علي



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التلفون	الايمل	الاهتمامات البحثية	القسم	الكلية	الاسم باللغة الإنجليزية	اسم عضو هيئة التدريس
4781	alaa.eftaiha@hu.edu.jo	<p>. Understanding the nature of bulk hetero-junction thin film blends composed of molecular donors and acceptors, with the aim of obtaining high performance organic photovoltaic cells</p> <p>2. Studying the assembly of mixed surfactant monolayers at both air-water and air-solid interfaces that have applications as exogenous pulmonary lung surfactant preparation</p> <p>3. Development of sustained release formulations, both solid and liquid dosage forms</p>	قسم الكيمياء	كلية العلوم	Ala Fakhri A.Z Eftaiha	ابودلو علاء فخري احمد زكي افتايحه
5162	Gassem@hu.edu.jo	<p>Fabrication of devices and circuits down to submicron range using photolithography technique</p> <ul style="list-style-type: none">• Fabrication of devices and circuits down to 20 nm using electron beam lithography technique (nanowires, single electron devices, carbon based materials; mainly Graphene FET and carbon nanotubes devices)• Characterization of nanostructures using	قسم الفيزياء	كلية العلوم	Gassem Mohammad Mustafa Alzoubi	قاسم محمد مصطفى الزعبى



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التلفون	الايمل	الاهتمامات البحثية	القسم	الكلية	الاسم باللغة الإنجليزية	اسم عضو هيئة التدريس
		electron microscopy, optical microscopy, X-ray diffraction, AFM, ... • Low noise magneto-electronic transport measurements of nanostructures • Low temperature measurements using cryogenic systems, including He3-He4 dilution refrigerator able to cool down to 35 mK and PPMS Quantum design able to cool down to 2 K				
	NabilD@hu.edu.jo	I am working in the field of theoretical and computational condensed matter physics and materials science. In particular, I am interested in understanding the structural, electronic, magnetic, transport and optical properties of semiconductors, composites, alloys, and nanomaterials using atomistic level simulation.	قسم الفيزياء	كلية العلوم	Nabil Mohammad Al-Aqtash	نبيل محمد سليمان الاقطش
4793	b.alhdaibat@hu.edu.jo	Dynamical Systems, Bifurcation Theory, Chaos Theory, Perturbation Methods and Nonlinear Dynamics in Economics.	قسم الرياضيات	كلية العلوم	Bashir Al-Hdaibat	بشير محمد عبدالله الهديبات
	smalnemrat@hu.edu.jo	Fragmentation of reactive materials Novel energetic materials Atomistic simulations of nano-materials	قسم الفيزياء	كلية العلوم	Sufian Mohammad Alnemrat	سفيان محمد حسين النمراة
	iyad.alhagaish@hu.edu.jo	the ground state properties of 4He and 12C nuclei have been investigated at equilibrium and at large	قسم الفيزياء	كلية العلوم	Iyad Khalaf Awad Alhagaish	اياد خلف عوض الهقيش



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		<p>amplitude of compression using a realistic effective interaction based on two different potentials namely, Nijmegen and Reid Soft Core (RSC)potentials. We perform the calculations in no-core model space consisting of six major oscillator shells (i.e.21 single particles orbitals) within the framework of the constrained spherical Hartree-Fock (CSHF) approximations. We specifically investigate the sensitivity of the ground state properties; such as binding energy, nuclear radius, radial density distribution and single particle energies to the degree of compression. For 4He, we have found that the equilibrium rrms using two different potentials (Nijmegen and RSC) are the same and equals (1.46 fm), and also we have found that the corresponding EHF using two different potentials (Nijmegen and RSC) equals (-28.296 MeV). For 12C, we have found that the equilibrium rrms using two different potentials (Nijmegen and RSC) are the same and equals (2.35 fm), and</p>				



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التلفون	الاي ميل	الاهتمامات البحثية	القسم	الكلية	الاسم باللغة الإنجليزية	اسم عضو هيئة التدريس
		EHF using RSC and Nijmegen potentials are equals to -92.167 MeV and -92.174MeV respectively. These values are approximately equal to experimental values				