

Title	Authors	Year	Scopus Source title	Volume	Issue	Pages
Friction stir welding of similar and dissimilar AA7075 and AA5083	Ahmed, M.M.Z. Ataya, S. El-Sayed Seleman, M.M. Ammar, H.R. Ahmed, E.	2017	Journal of Materials Processing Technology	242	-	77-91
Combined effects of magnetic field and rheological properties on the peristaltic flow of a compressible fluid in a microfluidic channel	Abdelsalam, S.I. Vafai, K.	2017	European Journal of Mechanics, B/Fluids	65	-	398-411
Green synthesis of copper oxide nanoparticles in aqueous medium as a potential efficient catalyst for catalysis applications	Mohsen, W. Sadek, M.A. Elazab, H.A.	2017	International Journal of Applied Engineering Research	12	24	14927-14930
Bulletproof vests/shields prepared from composite material based on strong polyamide fibers and epoxy resin	Mankarious, R.A. Radwan, M.A. Shazly, M. Elazab, H.A.	2017	Journal of Engineering and Applied Sciences	12	10	2697-2701
Particulate suspension effect on peristaltically induced unsteady pulsatile flow in a narrow artery: Blood flow model	Abdelsalam, S.I. Vafai, K.	2017	Mathematical Biosciences	283	-	91-105
Stabilized super-thermite colloids: A new generation of advanced highly energetic materials	Elbasuney, S. Gaber Zaky, M. Radwan, M. Mostafa, S.F.	2017	Applied Surface Science	419	-	328-336
Co-gasification of coal and biomass wastes in an entrained flow gasifier: Modelling, simulation and integration opportunities	Ali, D.A. Gadalla, M.A. Abdelaziz, O.Y. Hulteberg, C.P. Ashour, F.H.	2017	Journal of Natural Gas Science and Engineering	37	-	126-137
Mechanical characteristics for different composite materials based on commercial epoxy resins and different fillers	Radwan, M.A. Naeem, M.M. Sadek, M.A. Elazab, H.A.	2017	Journal of Engineering and Applied Sciences	12	5	1179-1185
Heritage building information modelling	Arayici, Y. Counsell, J. Mahdjoubi, L. Nagy, G. Hawas, S. Dewidar, K.	2017	Heritage Building Information Modelling	-	-	1-279
Temperature driving force (TDF) curves for heat exchanger network retrofit – A case study and implications	Kamel, D.A. Gadalla, M.A. Abdelaziz, O.Y. Labib, M.A. Ashour, F.H.	2017	Energy	123	-	283-295

TiO ₂ /ZnO photocatalysts synthesized by sol-gel auto-ignition technique for hydrogen production	Al-Mayman, S.I. Al-Johani, M.S. Mohamed, M.M. Al-Zeghayer, Y.S. Ramay, S.M. Al-Awadi, A.S. Soliman, M.A.	2017	International Journal of Hydrogen Energy	42	8	5016-5025
Novel process technologies for conversion of carbon dioxide from industrial flue gas streams into methanol	Abdelaziz, O.Y. Hosny, W.M. Gadalla, M.A. Ashour, F.H. Ashour, I.A. Hulteberg, C.P.	2017	Journal of CO ₂ Utilization	21	-	52-63
Accurate approach to the temperature effect on state of charge estimation in the LiFePO ₄ battery under dynamic load operation	Duong, V.-H. Bastawrous, H.A. See, K.W.	2017	Applied Energy	204	-	560-571
Interaction between compressibility and particulate suspension on peristaltically driven flow in planar channel	Eldesoky, I.M. Abdelsalam, S.I. Abumandour, R.M. Kamel, M.H. Vafai, K.	2017	Applied Mathematics and Mechanics (English Edition)	38	1	137-154
Thermoluminescence properties of borosilicate glass doped with ZnO	Salama, E. Soliman, H.A. Youssef, G.M. Hamad, S.	2017	Journal of Luminescence	186	-	164-169
Flower-shaped gold nanoparticles: Preparation, characterization, and electrocatalytic application	Al-Akraa, I.M. Mohammad, A.M. El-Deab, M.S. El-Anadouli, B.E.	2017	Arabian Journal of Chemistry	10	6	877-884
Efficient electro-oxidation of formic acid at Pd-MnO _x binary nanocatalyst: Optimization of deposition strategy	Al-Akraa, I.M.	2017	International Journal of Hydrogen Energy	42	7	4660-4666
Effect of manganese, silicon and chromium additions on microstructure and wear characteristics of grey cast iron for sugar industries applications	ELsawy, E.E.T. EL-Hebeary, M.R. El Mahallawi, I.S.E.	2017	Wear	390-391	-	113-124
Integrated process development for an optimum gas processing plant	Sayed, A.E.-R. Ashour, I. Gadalla, M.	2017	Chemical Engineering Research and Design	124	-	114-123
Optimizing RPL Objective Function for Mobile Low-Power Wireless Networks	Urama, I.H. Fotouhi, H. Abdellatif, M.M.	2017	Proceedings - International Computer Software and Applications Conference	2	-	678-683

Nonlinear finite element analysis of short and long reinforced concrete columns confined with GFRP tubes	Hussein Abdallah, M. Shazly, M. Mohamed, H.M. Masmoudi, R. Mousa, A.	2017	Journal of Reinforced Plastics and Composites	36	13	972-987
Energy-scape elements: An approach on integrating landscape elements with renewable energy devices	Moussa, R.R. Mahmoud, A.H.A.	2017	Journal of Cleaner Production	153	-	114-130
Highly reliable controller implementation using a network-based fully reconfigurable FPGA for industrial applications	Alkady, G.I. Daoud, R.M. Amer, H.H. Adly, I. Halawa, H.H. Abdelhalim, M.B.	2017	IEEE International Conference on Emerging Technologies and Factory Automation, ETFA	-	-	5-Jan
An experimental-based energy integrated process for Biodiesel production from waste cooking oil using supercritical methanol	Aboelazayem, O. Gadalla, M. Saha, B.	2017	Chemical Engineering Transactions	61	-	1645-1650
Effect of thermal exposure on the mechanical properties of polymer adhesives	Okba, S.H. Nasr, E.-S.A. Helmy, A.I.I. Yousef, I.A.-L.	2017	Construction and Building Materials	135	-	490-504
Promising ethylene glycol electro-oxidation at tailor-designed NiOx/Pt nanocatalyst	El-Nowihy, G.H. Mohammad, A.M. Khalil, M.M.H. Sadek, M.A. El-Deab, M.S.	2017	International Journal of Hydrogen Energy	42	8	5095-5104
Talent management: A novel approach for developing innovative solutions towards heritage communities development	Khalil, M. Elsaay, H. Othman, A.	2017	Archnet-IJAR	11	3	132-145
Natural radioactivity levels and associated health hazards from the terrestrial ecosystem in Rosetta branch of the River Nile, Egypt	Abdellah, W.M. Diab, H.M. El-Kameesy, S.U. Salama, E. El-Framawy, S.	2017	Isotopes in Environmental and Health Studies	53	4	427-439
Mechanical properties and wear resistance of semisolid cast Al ₂ O ₃ nano reinforced hypo and hyper-eutectic Al-Si composites	Mahallawi, I.S.E. Shash, A.Y.	2017	Advanced Structured Materials	33	-	13-30
Effect of Heat Treatment on Friction-Stir-Processed Nanodispersed AA7075 and 2024 Al Alloys	El-Mahallawi, I. Ahmed, M.M.Z. Mahdy, A.A. Abdelmotagaly, A.M.M. Hoziefa, W. Refat, M.	2017	Minerals, Metals and Materials Series	-	9.78E+12	297-309
Options for nanoreinforced cast Al-Si alloys with TiO ₂ nanoparticles	Shash, A.Y. El-Mahallawi, I.S. Amer, A.E.	2017	Advanced Structured Materials	33	-	12-Jan

Biodiesel production from high acid value waste cooking oil using supercritical methanol: Esterification kinetics of free fatty acids	Aboelazayem, O. Abdelaziz, O. Gadalla, M. Hulteberg, C. Saha, B.	2017	European Biomass Conference and Exhibition Proceedings	2017	25	1381-1387
Improvement of mechanical properties and structure modifications of low carbon steel by inoculations with nano-size silicon nitride	Shash, A. El-Fawkhry, M.K. Abd El Rahman, S.A. Elmahallawi, I.S. Mattar, T.	2017	Journal of Nano Research	47	-	24-32
Participatory sensing for community engagement with HBIM	Nagy, G. Counsell, J.	2017	Heritage Building Information Modelling	-	-	242-256
Investigating a sequentially assembled MnOx/Pt nanocatalyst as a potential anode for ethylene glycol fuel cells	El-Nowihy, G.H. Mohammad, A.M. Khalil, M.M.H. Sadek, M.A. El-Deab, M.S.	2017	International Journal of Electrochemical Science	12	1	62-73
Three-Dimensional Beam Scan Using Ferrite-Loaded Circular Waveguide Antenna	Iqbal Mitu, S.S. Al-Garni, A.M. Ragheb, H.A. Hassan, E.E.M.	2017	IEEE Antennas and Wireless Propagation Letters	16	-	1131-1134
Technical and economical/financial feasibility analyses of flared gas recovery in Egypt from oil and gas industry from international/national oil companies' perspectives	Ibrahim, A.Y. Ghallab, A.O. Gadalla, M.A. Makary, S.S. Ashour, F.H.	2017	Clean Technologies and Environmental Policy	19	5	1423-1436
Thermoelectric behaviour of polyvinyl acetate/CNT composites	Badr, H. Youssef, M.A. Elsalam, H.S.A. Mohamed, M.A.E. El-kholy, M.G. El-Mahallawi, I.S. Abdel-Rehim, A.A.	2017	Minerals, Metals and Materials Series	6	-	287-294
An investigation of friction effect on formability of AA 6061-T4 sheet during cold forming condition	Mohamed, M. Farouk, M. Elsayed, A. Shazly, M. Hegazy, A.A.	2017	AIP Conference Proceedings	1896	-	-
Behavior of natural organisms as a mimicking tool in architecture	El-Mahdy, D.	2017	International Journal of Design and Nature and Ecodynamics	12	2	214-224
PROCESS SENSITIVITY STUDIES OF THE WESTINGHOUSE SULFUR CYCLE FOR HYDROGEN GENERATION.	Carty, R. Cox, K. Funk, J. Soliman, M. Conger, W. Brecher, L. Spewock, S.	2017	-	1	-	17-28

Biologically inspired security as a service for service-oriented middleware	Jamaluddin, T.S. Hassan, H. Hamza, H.S.	2017	ENASE 2017 - Proceedings of the 12th International Conference on Evaluation of Novel Approaches to Software Engineering	-	-	121-132
A multiscale model for damage progression and detection in piezo/pyroelectric composite laminates	Bahei-El-Din, Y.A. Micheal, A.	2017	Mechanics of Materials	113	-	77-88
Numerical investigation of compressor blades deformation during stall development into surge	Halawa, T. Gadala, M.S.	2017	Journal of Propulsion and Power	33	5	1074-1086
Microstructure and hardness of subzero quenched and heat treated Ti-6Al-4V alloy	Abbas, A. Seif, A. El-Mahallawi, I. Khalifa, W.	2017	Minerals, Metals and Materials Series	-	9.78E+12	379-391
Predicting behavior of condeep storage cells using classical theory of shells	Helmy, A.I.I. Collins, M.P.	2017	ACI Structural Journal	114	6	1457-1469
Blast resilient design of infrastructure subjected to ground threats	Salem, S. Campidelli, M. El-Dakhakhni, W. Tait, M.	2017	American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP	4	-	-
Fault-Tolerant FPGA-based controllers in factory automation	Alkady, G.I. Daoud, R.M. Amer, H.H. Elsalamouny, M.Y. Adly, I.	2017	2017 6th Mediterranean Conference on Embedded Computing, MECO 2017 - Including ECYPS 2017, Proceedings	-	-	-
An Investigation and Prediction of Springback of Sheet Metals under Cold Forming Condition	Elsayed, A. Mohamed, M. Shazly, M. Hegazy, A.	2017	IOP Conference Series: Materials Science and Engineering	280	1	-

The hypergraphs generated by catacondensed hexagonal systems	Salem, K.	2017	2017 7th International Conference on Modeling, Simulation, and Applied Optimization, ICMSAO 2017	-	-	-
THERMODYNAMIC ANALYSIS OF ALTERNATE ENERGY CARRIERS, HYDROGEN AND CHEMICAL HEAT PIPES.	Cox, K.E. Carty, R.H. Conger, W.L. Soliman, M.A. Funk, J.E.	2017	-	2	-	16-Mar
Multiscale mechanics of composite materials and structures	Bahei-El-Din, Y.A.	2017	Comprehensive Composite Materials II	-	-	426-450
Cognitive mapping as a link between the urban designer and space user	Elsayed, M.A. Ismaeel, W.S.E.	2017	Proceedings of 33rd PLEA International Conference: Design to Thrive, PLEA 2017	1	-	417-424
Green BIM in heritage building: Integrating building energy models (BEM) with building information modeling (BIM) for sustainable retrofit of heritage buildings	Khodeir, L.	2017	Heritage Building Information Modelling	-	-	203-217
Rotating stall simulation for axial and centrifugal compressors	Halawa, T. Gadala, M.S.	2017	International Journal of Computational Methods in Engineering Science and Mechanics	18	3-Feb	135-145
Cooperative anti-jamming for secondary opportunistic networks: A Colonel Blotto game model	Raheem, M.A. Abdellatif, M.M.	2017	International Conference on Wireless and Mobile Computing, Networking and Communications	2017-	-	-

The process of holism: a critical analysis to bridge the gap between sustainable architecture design principles and elements defining Art of Sustainability	Farid, A.A. Zagloul, W.M. Dewidar, K.M.	2017	Intelligent Buildings International	9	2	67-87
Detecting laminate damage using embedded electrically active plies – An analytical approach	Micheal, A.G.B. Bahei-El-Din, Y.A.	2017	Composite Structures	168	-	772-779
THERMOCHEMICAL DATA BANK FOR CYCLE ANALYSIS.	Carty, R. Funk, J. Conger, W. Soliman, M. Cox, K.	2017	-	1	-	81-86
On Strongly *-graph	Seoud, M.A.-A. Roshdy, E.M. Aboshady, M.S.	2017	Proceedings of the Pakistan Academy of Sciences: Part A	54	2	179-195
Centrifugal Casting of Al-Si Scrap	Assem, A. El-Haddad, S. El Mahallawi, I.	2017	Minerals, Metals and Materials Series	-	210819	1131-1137
Identification of copper precipitates in scrap based recycled low carbon rebar steel	Ramadan, A. Shash, A.Y. El-Mahallawi, I.S. Senk, D. Mattar, T.	2017	Materials and Design	120	-	157-169
Ethylene production economics from optional feedstocks	Sorour, F.H. Abdelmonem, N.M. Tewfik, S.R. Ashour, F.H. Gadalla, M.A.	2017	Hydrocarbon Processing	2017	-	14-Sep
From history to heritage: Viollet-le-duc's concept on historic preservation	Dewidar, K.	2017	Heritage Building Information Modelling	-	-	45-49