

Title	Authors	Year	Scopus Source title	Volume	Issue	Pages
Fading Kalman filter-based real-time state of charge estimation in LiFePO ₄ battery-powered electric vehicles	Lim, K. Bastawrous, H.A. Duong, V.-H. See, K.W. Zhang, P. Dou, S.X.	2016	Applied Energy	169	-	40-48
A graphene-carbon nanotube hybrid material for photovoltaic applications	Maarouf, A.A. Kasry, A. Chandra, B. Martyna, G.J.	2016	Carbon	102	-	74-80
An overview of production and development of ceramic membranes	Amin, S.K. Abdallah, H.A.M. Roushdy, M.H. El-Sherbiny, S.A.	2016	International Journal of Applied Engineering Research	11	12	7708-7721
Influence of friction stir processing on the microstructure and mechanical properties of a compocast AA2024-Al ₂ O ₃ nanocomposite	Hoziefafa, W. Toschi, S. Ahmed, M.M.Z. Morri, A. Mahdy, A.A. El-Sayed Seleman, M.M. El-Mahallawi, I. Ceschini, L. Atlam, A.	2016	Materials and Design	106	-	273-284
Microstructure and mechanical properties evolution of friction stir spot welded high-Mn twinning-induced plasticity steel	Ahmed, M.M.Z. Ahmed, E. Hamada, A.S. Khodir, S.A. El-Sayed Seleman, M.M. Wynne, B.P.	2016	Materials and Design	91	-	378-387
An analytical model of heat generation for eccentric cylindrical pin in friction stir welding	Essa, A.R.S. Ahmed, M.M.Z. Mohamed, A.-K.Y.A. El-Nikhaily, A.E.	2016	Journal of Materials Research and Technology	5	3	234-240
Intermittent curing of fly ash geopolymer mortar	Helmy, A.I.I.	2016	Construction and Building Materials	110	-	54-64
Effect of Intermetallic Compound Phases on the Mechanical Properties of the Dissimilar Al/Cu Friction Stir Welded Joints	Khodir, S.A. Ahmed, M.M.Z. Ahmed, E. Mohamed, S.M.R. Abdel-Aleem, H.	2016	Journal of Materials Engineering and Performance	25	11	4637-4648
Effect of Ce and Co addition to Fe/Al ₂ O ₃ for catalytic methane decomposition	Al-Fatesh, A.S. Amin, A. Ibrahim, A.A. Khan, W.U. Soliman, M.A. Al-Otaibi, R.L. Fakeeha, A.H.	2016	Catalysts	6	3	-
Microstructure, Hardness and Impact Toughness of Heat-Treated Nanodispersed Surface and Friction Stir-Processed Aluminum Alloy AA7075	Refat, M. Elashery, A. Toschi, S. Ahmed, M.M.Z. Morri, A. El-Mahallawi, I. Ceschini, L.	2016	Journal of Materials Engineering and Performance	25	11	5087-5101

Conceptual insights to debottleneck the Network Pinch in heat-integrated crude oil distillation systems without topology modifications	Gadalla, M.A. Abdelaziz, O.Y. Ashour, F.H.	2016	Energy Conversion and Management	126	-	329-341
A comparison of crystallographic texture and grain structure development in aluminum generated by friction stir welding and high strain torsion	Ahmed, M.M.Z. Wynne, B.P. El-Sayed Seleman, M.M. Rainforth, W.M.	2016	Materials and Design	103	-	259-267
Performance of hydraulic turbocharger integrated with hydraulic energy management in SWRO desalination plants	El-Sayed, T.A. Abdel Fatah, A.A.	2016	Desalination	379	-	85-92
3D finite element modeling of in-service sleeve repair welding of gas pipelines	Alian, A.R. Shazly, M. Megahed, M.M.	2016	International Journal of Pressure Vessels and Piping	146	-	216-229
Influence of changing casing groove parameters on the performance of centrifugal compressors near stall condition	Halawa, T. Gadala, M.S. Alqaradawi, M. Badr, O.	2016	Journal of Fluids Engineering, Transactions of the ASME	138	2	-
Modelling of coal-biomass blends gasification and power plant revamp alternatives in Egypt's natural gas sector	Ali, D.A. Gadalla, M.A. Abdelaziz, O.Y. Ashour, F.H.	2016	Chemical Engineering Transactions	52	-	49-54
Supply chain design network model for biofuel and petrochemicals from biowaste	Emara, I.A. Gadalla, M. Ashour, F.	2016	Chemical Engineering Transactions	52	-	1069-1074
Complementary phase coded LFM waveform for SAR	Seley, A.	2016	ICNS 2016: Securing an Integrated CNS System to Meet Future Challenges	-	-	-
Reaction parameters and energy optimisation for biodiesel production using a supercritical process	Farrag, N.M. Gadalla, M.A. Fouad, M.K.	2016	Chemical Engineering Transactions	52	-	1207-1212
The effect of process parameters on the mechanical properties of A356 Al-Alloy/ZrO ₂ Nano-composite	Shash, A.Y. Amer, A.E. El-Mahallawi, I.S. El-Saeed, M.A.	2016	Journal of Nano Research	38	-	8-Jan

A touch sensing technique using the effects of extremely low frequency fields on the human body	Elfekey, H. Bastawrous, H.A. Okamoto, S.	2016	Sensors (Switzerland)	16	12	-
Granite-based touch-sensing floor for machinery safety and exergaming	Elfekey, H.M. Bastawrous, H.A.	2016	2015 IEEE 4th Global Conference on Consumer Electronics, GCCE 2015	-	-	593-594
Investigating the effect of Al ₂ O ₃ /water nanofluid on the efficiency of a thermosyphon flat-plate solar collector	Negm, M.N.A. Abdel-Rehim, A.A. Attia, A.A.A.	2016	ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE)	8	-	-
Effect of process control mode on weld quality of friction stir welded plates	Shazly, M. Sorour, S. Alian, A.R.	2016	Journal of Mechanical Science and Technology	30	1	267-278
3D human proximity sensor based on the AC hum effect	Elfekey, H.M. Maximous, G.S. Bastawrous, H.A.	2016	2016 IEEE 5th Global Conference on Consumer Electronics, GCCE 2016	-	-	-
An experimental investigation of industrial gearbox condition using wear particle analysis technique	Akl, S.Y. El-Ghafar, S.A. Mosleh, H.	2016	ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE)	9	-	-
The self-configuration of nodes using RSSI in a dense wireless sensor network	Abdellatif, M.M. Oliveira, J.M. Ricardo, M.	2016	Telecommunication Systems	62	4	695-709
An Experimental Investigation of the Effect of Aluminum Oxide (Al ₂ O ₃) Nanoparticles as fuel additive on the Performance and Emissions of a Diesel Engine	Abdel-Rehim, A.A. Akl, S.Y.	2016	SAE Technical Papers	-	-	-

Behavior of storage cells in condeep structure under hydrostatic pressure	Helmy, A.I.I. Collins, M.P.	2016	ACI Structural Journal	113	4	839-850
Tribological Properties of Engine Lubricant with Nano-Copper Oxide as an Additive	Akl, S.Y. Abdel-Rehim, A.A. Khafagy, E.A.	2016	SAE Technical Papers	2016-	April	-
Design and Implementation of Fuzzy Event-detection Algorithm for Border Monitoring on FPGA	Ahmed, H.O. Elkhatib, M.M. Adly, I. Ragai, H.F.	2016	International Journal of Fuzzy Systems	18	6	1054-1064
Predicting the behaviour of storage cells in early condeep structures	Helmy, A.I.I. Collins, M.P.	2016	Canadian Journal of Civil Engineering	43	7	643-656
Optimization of stepped conical swirler with multiple jets for pre-mixed turbulent swirl flames	Shahin, I. Elsemary, I.M.M. Abdel-Rehim, A.A. Attia, A.A.A. Elnagar, K.H.	2016	Applied Thermal Engineering	102	-	359-374
Revamping of heat exchanger network of an egyptian refinery plant using new temperature driving force (TDF) graphical technique	Kamel, D.A. Gadalla, M.A. Ashour, F.H.	2016	Chemical Engineering Transactions	52	-	337-342
Resilience-based design of reinforced masonry wall buildings under blast loading	Salem, S. El-Dakhkhni, W. Tait, M.	2016	Brick and Block Masonry: Trends, Innovations and Challenges - Proceedings of the 16th International Brick and Block Masonry Conference, IBMAC 2016	-	-	1007-1014
Cross-bispectral analysis for detection and diagnosis of helicopter trail-rotor drive-shaft problems	Hassan, M.A. Fatah, A.A.A. Bayoumi, A.-M.	2016	IEEE Aerospace Conference Proceedings	2016-	-	-
A robust fuzzy logic-based real-time automatic camber detection and measurement in hot rolling mill	Abdelgawad, M.S. Abdelkader, S.F. Bastawrous, H.A.	2016	2016 IEEE 5th Global Conference on Consumer Electronics, GCCE 2016	-	-	-

Measuring and evaluating the performance of a wastewater treatment plant	Hegazy, M.H. Gawad, M.A.	2016	World Congress on Civil, Structural, and Environmental Engineering	-	-	-
Radiological safety assessment inside ancient Egyptian tombs in Saqqara	El-Kameesy, S.U. Salama, E. El-fiki, S.A. Ehab, M. Rühm, W.	2016	Isotopes in Environmental and Health Studies	52	6	567-576
Behavior of reinforced concrete cylindrical shells subjected to external hydrostatic water pressure	Helmy, A.I.I. Collins, M.P.	2016	ACI Structural Journal	113	5	1031-1042
Radiation characteristics of circular waveguide antenna loaded with ferrite rod	Sheikh, S.I.M. Algarni, A.M. Ragheb, H.	2016	IET Microwaves, Antennas and Propagation	10	7	797-801
The effect of heat treatment on the properties of friction stir processed AA7075-O with and without nano alumina additions	Refat, M. Abdelmotagaly, A.M.M. Ahmed, M.M.Z. El-Mahallawi, I.	2016	Friction Stir Welding and Processing VIII	-	-	115-123
Post weld heat treatment of friction stir welded AA2017	Ahmed, M.M.Z. Wynne, B.P.	2016	Light Metals 2012	-	-	509-513
A new Kumaraswamy transmuted exponential distribution with applications to lifetime data	Mansour, M.M. Elrazik, E.M.A. Hamed, M.S.	2016	Journal of Applied Probability and Statistics	11	1	47-74
Welding-associated failures in power boilers	El-Mahallawi, I. Khalifa, W. El-Saady, M. El-Koussy, M.R.	2016	Handbook of Materials Failure Analysis with Case Studies from the Chemicals, Concrete and Power Industries	-	-	387-410

Supply chain design network model for biofuel and petrochemicals from biowaste	Emara, I.A. Gadalla, M. Ashour, F.	2016	22nd International Congress of Chemical and Process Engineering, CHISA 2016 and 19th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, PRES 2016	2	-	-
Reaction parameters and an energy optimization for biodiesel production using a supercritical process	Farrag, N. Gadalla, M. Fouad, M.	2016	22nd International Congress of Chemical and Process Engineering, CHISA 2016 and 19th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, PRES 2016	2	-	-
Finite element simulation of PZT-aided interrogation of composite laminates exhibiting damage	Micheal, A.G.B. Bahei-El-Din, Y.A.	2016	ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE)	9	-	-

Revamping of heat exchanger network of an Egyptian refinery plant using new temperature driving force (TDF) graphical technique	Kamel, P. Gadalla, M. Ashour, F.	2016	22nd International Congress of Chemical and Process Engineering, CHISA 2016 and 19th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, PRES 2016	2 -	984-985
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