

# Abdus Samad

## List of Publications by Year in descending order

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122  
papers

1,627  
citations

304368

22  
h-index

344852

36  
g-index

130  
all docs

130  
docs citations

130  
times ranked

913  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Multiple Surrogate Modeling for Axial Compressor Blade Shape Optimization. <i>Journal of Propulsion and Power</i> , 2008, 24, 301-310.   | 1.3 | 163       |
| 2  | Shape optimization of a bidirectional impulse turbine via surrogate models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 1-12.   | 1.5 | 117       |
| 3  | Improved design of a Wells turbine for higher operating range. <i>Renewable Energy</i> , 2017, 106, 122-134.   | 4.3 | 68        |
| 4  | High performance ocean energy harvesting turbine design—A new casing treatment scheme. <i>Energy</i> , 2015, 86, 219-231.  | 4.5 | 67        |
| 5  | Design optimization of low-speed axial flow fan blade with three-dimensional RANS analysis. <i>Journal of Mechanical Science and Technology</i> , 2008, 22, 1864-1869.   | 0.7 | 63        |
| 6  | Multiple surrogate based optimization of a bidirectional impulse turbine for wave energy conversion. <i>Renewable Energy</i> , 2015, 74, 749-760.  | 4.3 | 62        |
| 7  | Surrogate Based Optimization Techniques for Aerodynamic Design of Turbomachinery. <i>International Journal of Fluid Machinery and Systems</i> , 2009, 2, 179-188.  | 0.5 | 57        |
| 8  | Shape optimization of an axial compressor blade by multi-objective genetic algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2008, 222, 599-611. | 0.8 | 54        |
| 9  | Multi-objective optimization of an axial compressor blade. <i>Journal of Mechanical Science and Technology</i> , 2008, 22, 999-1007.   | 0.7 | 44        |
| 10 | High efficiency design of an impulse turbine used in oscillating water column to harvest wave energy. <i>Renewable Energy</i> , 2018, 121, 344-354.  | 4.3 | 44        |
| 11 | Numerical optimization of Wells turbine for wave energy extraction. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2017, 9, 11-24.   | 1.0 | 41        |
| 12 | Wave energy conversion: Design and shape optimization. <i>Ocean Engineering</i> , 2018, 150, 337-351.  | 1.9 | 40        |
| 13 | Performance enhancement of Wells turbine: Combined radiused edge blade tip, static extended trailing edge, and variable thickness modifications. <i>Ocean Engineering</i> , 2019, 185, 47-58.                  | 1.9 | 32        |
| 14 | Influence of stall fences on the performance of Wells turbine. <i>Energy</i> , 2020, 194, 116864.  | 4.5 | 32        |
| 15 | Multi-objective optimization of a dimpled channel for heat transfer augmentation. <i>Heat and Mass Transfer</i> , 2008, 45, 207-217.   | 1.2 | 31        |
| 16 | Optimal Wells turbine speeds at different wave conditions. <i>International Journal of Marine Energy</i> , 2016, 16, 133-149.  | 1.8 | 31        |
| 17 | Optimal design of air turbines for oscillating water column wave energy systems: A review. <i>The International Journal of Ocean and Climate Systems</i> , 2017, 8, 37-49.                                     | 0.8 | 31        |
| 18 | Surrogate Modeling for Optimization of Dimpled Channel to Enhance Heat Transfer Performance. <i>Journal of Thermophysics and Heat Transfer</i> , 2007, 21, 667-671.  | 0.9 | 29        |

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|----|---|-----|-----------|
| 19 | Introducing Gurney flap to Wells turbine blade and performance analysis with OpenFOAM. Ocean Engineering, 2019, 187, 106212.  | 1.9 | 27        |
| 20 | Multi-fidelity optimization of blade thickness parameters for a horizontal axis tidal stream turbine. Renewable Energy, 2019, 135, 277-287.   | 4.3 | 26        |
| 21 | Application of computational fluid dynamics and surrogate-coupled evolutionary computing to enhance centrifugal-pump performance. Engineering Applications of Computational Fluid Mechanics, 2016, 10, 171-181. | 1.5 | 25        |
| 22 | Development of a reduced order wave to wire model of an OWC wave energy converter for control system analysis. Ocean Engineering, 2019, 172, 614-628.   | 1.9 | 25        |
| 23 | Shape Optimization of a Dimpled Channel to Enhance Heat Transfer Using a Weighted-Average Surrogate Model. Heat Transfer Engineering, 2010, 31, 1114-1124.  | 1.2 | 22        |
| 24 | Effectiveness of meta-models for multi-objective optimization of centrifugal impeller. Journal of Mechanical Science and Technology, 2014, 28, 4947-4957.   | 0.7 | 19        |
| 25 | Experimental Analysis of a Biplane Wells Turbine under Different Load Conditions. Energy, 2020, 206, 118205.  | 4.5 | 19        |
| 26 | Application of Surrogate Modeling to Design of A Compressor Blade to Optimize Stacking and Thickness. International Journal of Fluid Machinery and Systems, 2009, 2, 1-12.                                      | 0.5 | 18        |
| 27 | A comparative study of kriging variants for the optimization of a turbomachinery system. Engineering With Computers, 2016, 32, 49-59.   | 3.5 | 18        |
| 28 | Pumping crude oil by centrifugal impeller having different blade angles and surface roughness. Journal of Petroleum Exploration and Production, 2016, 6, 117-127.   | 1.2 | 16        |
| 29 | Design Optimization of the Centrifugal Pumps via Low Fidelity Models. Mathematical Problems in Engineering, 2018, 2018, 1-14.   | 0.6 | 14        |
| 30 | Optimization based higher order sliding mode controller for efficiency improvement of a wave energy converter. Energy, 2019, 187, 116111.   | 4.5 | 14        |
| 31 | Surrogate-based design optimization of a centrifugal pump impeller. Engineering Optimization, 2022, 54, 1395-1412.  | 1.5 | 14        |
| 32 | Wave Energy Harvesting Turbine: Performance Enhancement. Procedia Engineering, 2015, 116, 97-102.   | 1.2 | 13        |
| 33 | Flow analysis of airfoil having different cavities on its suction surface. Progress in Computational Fluid Dynamics, 2016, 16, 67.  | 0.1 | 13        |
| 34 | Optimal Design of Swept, Leaned and Skewed Blades in a Transonic Axial Compressor. , 2006, , 1279.  |     | 12        |
| 35 | Comparative Performance Analysis of Microjet Impingement Cooling Models with Different Spent-Flow Schemes. Journal of Thermophysics and Heat Transfer, 2016, 30, 466-472.                                       | 0.9 | 12        |
| 36 | Casing Treatment of a Wave Energy Extracting Turbine. Aquatic Procedia, 2015, 4, 516-521.   | 0.9 | 11        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Performance enhancement of an impulse turbine for OWC using grouped grey wolf optimizer based controller. Ocean Engineering, 2019, 190, 106425.  | 1.9 | 11        |
| 38 | Shape Optimization of Turbomachinery Blade Using Multiple Surrogate Models. , 2006, , 827.   |     | 10        |
| 39 | Torque and efficiency maximization for a wave energy harvesting turbine: an approach to modify multiple design variables. International Journal of Energy Research, 2017, 41, 1014-1028.               | 2.2 | 10        |
| 40 | Performance prediction of a centrifugal pump delivering non-Newtonian slurry. Particulate Science and Technology, 2018, 36, 38-45.   | 1.1 | 10        |
| 41 | CFD-based analysis for finding critical wall roughness on centrifugal pump at design and off-design conditions. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.  | 0.8 | 10        |
| 42 | Centrifugal pump performance enhancement: Effect of splitter blade and optimization. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2022, 236, 391-402.  | 0.8 | 10        |
| 43 | Flow Analyses Inside Jet Pumps Used for Oil Wells. International Journal of Fluid Machinery and Systems, 2013, 6, 1-10.  | 0.5 | 9         |
| 44 | Improvement of Efficiency by Design Optimization of a Centrifugal Pump Impeller. , 2014, , .   |     | 9         |
| 45 | Numerical Analysis of Centrifugal Impeller for Different Viscous Liquids. International Journal of Fluid Machinery and Systems, 2015, 8, 36-45.  | 0.5 | 9         |
| 46 | Experimental and Numerical Investigation of the Performance of a Centrifugal Pump When Pumping Water and Light Crude Oil. Arabian Journal for Science and Engineering, 2017, 42, 4605-4615.            | 1.7 | 9         |
| 47 | Multi-Objective Optimization of Cooling Channel Roughened by Dimples. Journal of Fluid Science and Technology, 2008, 3, 754-763.   | 0.2 | 8         |
| 48 | Surrogate Assisted Design Optimization of an Air Turbine. International Journal of Rotating Machinery, 2014, 2014, 1-8.  | 0.8 | 8         |
| 49 | Wave Energy Harvesting Turbine: Effect of Hub-To-Tip Profile Modification. International Journal of Fluid Machinery and Systems, 2018, 11, 55-62.  | 0.5 | 8         |
| 50 | Vortex Trapping by Different Cavities on an Airfoil. Wind Engineering, 2013, 37, 469-482.  | 1.1 | 7         |
| 51 | Multi-objective optimization of a bidirectional impulse turbine. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2015, 229, 584-596.                      | 0.8 | 7         |
| 52 | Surrogate based optimization of a Bi-Directional impulse turbine for OWC-WEC: Effect of guide vane lean and stagger angle for pseudo-sinusoidal wave conditions. Ocean Engineering, 2021, 226, 108843. | 1.9 | 7         |
| 53 | Analysis of Flow through Ocean Energy Harvesting Bidirectional Impulse Turbine. The International Journal of Ocean and Climate Systems, 2014, 5, 51-63.  | 0.8 | 6         |
| 54 | Optimization of a Centrifugal Pump Impeller by Controlling Blade Profile Parameters. , 2016, , .   |     | 6         |

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|----|--|-----|-----------|
| 55 | A performance analysis of tidal turbine conversion system based on control strategies. Energy Procedia, 2019, 160, 526-533.  | 1.8 | 6         |
| 56 | On the optimal morphology and performance of a modeled dragonfly airfoil in gliding mode. Physics of Fluids, 2019, 31, 051904.   | 1.6 | 6         |
| 57 | Radiused Edge Blade Tip for a Wider Operating Range in Wells Turbine. Arabian Journal for Science and Engineering, 2021, 46, 2663-2676.  | 1.7 | 6         |
| 58 | Combined effects of viscosity and surface roughness on electric submersible pump performance. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2017, 231, 303-316.                 | 0.8 | 5         |
| 59 | Leakage flow correlation of a progressive cavity pump delivering shear thinning non-Newtonian fluids. International Journal of Oil, Gas and Coal Technology, 2017, 16, 166.  | 0.1 | 5         |
| 60 | Effects of crude oil-water emulsions at various water-cut on the performance of the centrifugal pump. International Journal of Oil, Gas and Coal Technology, 2017, 16, 71.   | 0.1 | 5         |
| 61 | Experimental analysis of turbine-chamber coupling for wave energy conversion. International Journal of Energy Research, 2018, 42, 4770-4782.   | 2.2 | 5         |
| 62 | High-performance ocean energy harvesting turbine design “ Detailed flow analysis with blade leaning strategy. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 379-396. | 0.8 | 5         |
| 63 | Performance Optimization of Centrifugal Pump for Crude Oil Delivery. Journal of Engineering Research, 2018, 15, 88.  | 0.2 | 5         |
| 64 | Effect of Guide Vane Angle on Wells Turbine Performance. , 2014, , .   |     | 4         |
| 65 | Jet Pump Design Optimization by Multi-Surrogate Modeling. Journal of the Institution of Engineers (India): Series C, 2015, 96, 13-19.  | 0.7 | 4         |
| 66 | Surface wave effect on marine current turbine, modelling and analysis. , 2016, , .   |     | 4         |
| 67 | An alternative approach to surrogate averaging for a centrifugal impeller shape optimisation. International Journal of Computer Aided Engineering and Technology, 2017, 9, 62.   | 0.1 | 4         |
| 68 | Computational and Experimental Study of Sand Entrapment in a Hydrocyclone During Desanding Operations in Oil Fields: Consequences for Leakage and Separation Efficiency. SPE Production and Operations, 2019, 34, 520-535.     | 0.4 | 4         |
| 69 | The Effect of Midplane Guide Vanes in a Biplane Wells Turbine. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .   | 0.8 | 4         |
| 70 | Experimental Investigation of a Bidirectional Impulse Turbine for Oscillating Flows at Various Resistive Loads. IEEE Journal of Oceanic Engineering, 2021, 46, 115-131.  | 2.1 | 4         |
| 71 | Design optimization of a marine current turbine having winglet on blade. Ocean Engineering, 2021, 239, 109877.   | 1.9 | 4         |
| 72 | Marine power technology“wave energy. , 2021, , 241-267.  |     | 4         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Numerical modelling and design of a small-scale wave-powered desalination system. Ocean Engineering, 2022, 256, 111419.   | 1.9 | 4         |
| 74 | Gas Interference in Sucker Rod Pump. , 2010, , .  |     | 3         |
| 75 | Performance analysis of an ejector for flare gas recovery. Geosystem Engineering, 2014, 17, 169-177.  | 0.7 | 3         |
| 76 | Design and Analysis of a Marine Current Turbine. , 2017, , .  |     | 3         |
| 77 | Performance Analysis of Wells Turbine With Radiused Blade Tip. , 2018, , .  |     | 3         |
| 78 | Hydrostructural Optimization of a Marine Current Turbine Through Multi-fidelity Numerical Models. Arabian Journal for Science and Engineering, 2020, 45, 935-952.                     | 1.7 | 3         |
| 79 | Nature-inspired design of a turbine blade harnessing wave energy. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2020, 234, 670-689.    | 0.8 | 3         |
| 80 | Combined Casing Groove and Blade Tip Treatment for Wave Energy Harvesting Turbine. Lecture Notes in Mechanical Engineering, 2021, , 1027-1040.  | 0.3 | 3         |
| 81 | An alternative approach to surrogate averaging for a centrifugal impeller shape optimisation. International Journal of Computer Aided Engineering and Technology, 2017, 9, 62.        | 0.1 | 3         |
| 82 | Multi Objective Optimization of a Turbomachinery Blade Using NSGA-II. , 2007, , 885.  |     | 2         |
| 83 | Enhancement of Film Cooling Effectiveness Using Upstream Ramp. , 2012, , .  |     | 2         |
| 84 | Exit Blade Angle and Roughness Effect on Centrifugal Pump Performance. , 2013, , .  |     | 2         |
| 85 | Modeling and controller implementation of tidal turbine for Indian remote islands. , 2016, , .  |     | 2         |
| 86 | Performance prediction of kinetic and screw pumps delivering slurry. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2018, 232, 898-911. | 0.8 | 2         |
| 87 | FILM-COOLING CHARACTERISTICS OF UPSTREAM RAMP ENHANCED TURBINE BLADE SURFACE COOLING. Heat Transfer Research, 2017, 48, 969-984.  | 0.9 | 2         |
| 88 | Blade Optimization of a Transonic Compressor Using a Multiple Surrogate Model. Transactions of the Korean Society of Mechanical Engineers, B, 2008, 32, 317-326.                      | 0.0 | 2         |
| 89 | Effect of blade skew, endplate and casing groove on the aerodynamic performance of Wells turbine for OWC: a review. Journal of Physics: Conference Series, 2022, 2217, 012070.        | 0.3 | 2         |
| 90 | Stacking and Thickness Optimization of a Compressor Blade Using Weighted Average Surrogate Model. , 2008, , .   |     | 1         |

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|-----|---|-----|-----------|
| 91  | Swirl Induced Flow Through a Venturi-Ejector. , 2012, , .   |     | 1         |
| 92  | Review of air turbines for wave energy conversion. , 2013, , .  |     | 1         |
| 93  | Efficiency Enhancement of Bidirectional Impulse Turbine Using Artificial Neural Network. , 2014, , .  |     | 1         |
| 94  | Oscillating water column wave energy system &#x2014; A prospective. , 2014, , .   |     | 1         |
| 95  | Marine Energy Turbine Performance: Effect of Blade Sweep. Energy Procedia, 2016, 90, 245-249.   | 1.8 | 1         |
| 96  | Evaluation of Impulse Turbines for a Wave Energy Converter. , 2017, , .   |     | 1         |
| 97  | Surface Roughness Effect on Performance of an Electric Submersible Pump. , 2017, , .  |     | 1         |
| 98  | Blood Flow and Mixing Analysis in Split-and-Recombine Micromixer With Offset Fluid Inlets. , 2018, , .  |     | 1         |
| 99  | Effect of Blade Profiles on the performance of Bidirectional Wave Energy Turbine. MATEC Web of Conferences, 2018, 172, 06002.   | 0.1 | 1         |
| 100 | Performance Analysis of an Air Turbine for Ocean Energy Extraction Using CFD Technique. Journal of the Institution of Engineers (India): Series C, 2019, 100, 523-530.  | 0.7 | 1         |
| 101 | Wave energy harvesting impulse turbine having ring type blade: Experiments with unsteady flow. Ocean Engineering, 2021, 236, 109553.  | 1.9 | 1         |
| 102 | Optimal designs of an ESP to handle upto 10% GVF. International Journal of Oil, Gas and Coal Technology, 2016, 13, 338.   | 0.1 | 1         |
| 103 | Effects of crude oil-water emulsions at various water-cut on the performance of the centrifugal pump. International Journal of Oil, Gas and Coal Technology, 2017, 16, 71.  | 0.1 | 1         |
| 104 | Numerical analysis of damping induced by impulse turbines for wave energy conversion. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2021, 235, 448-462. | 0.3 | 1         |
| 105 | Optimization of a Channel Roughened by Dimples on Opposite Surfaces for Heat Transfer Enhancement. , 2008, , .  |     | 0         |
| 106 | Optimization of Stacking Line and Blade Profile for Design of Axial Flow Fan Blade. , 2008, , .   |     | 0         |
| 107 | Optimum design of a channel roughened by dimples to improve cooling performance. Frontiers of Energy and Power Engineering in China, 2010, 4, 262-268.  | 0.4 | 0         |
| 108 | Numerical Analysis of Flare Gas Recovery Ejector. , 2014, , .   |     | 0         |

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|-----|---|-----|-----------|
| 109 | Performance Enhancement of an Electric Submersible Pump. , 2014, , .  |     | 0         |
| 110 | Spent Flow Effects of Multiple Micro-Jet Impingement Cooling Models. , 2015, , .  |     | 0         |
| 111 | Numerical Analysis of Fluid Flow Through an Electrical Submersible Pump for Handling Viscous Liquid. , 2016, , .  |     | 0         |
| 112 | A numerical analysis of casing groove parameters on the performance of wave energy conversion device. International Journal of Aerodynamics, 2018, 6, 125.                  | 0.1 | 0         |
| 113 | Optimization with Surrogate Models: Flow and Heat Transfer Applications. Mathematical Problems in Engineering, 2019, 2019, 1-2.   | 0.6 | 0         |
| 114 | Surrogate-Based Optimization of a Biplane Wells Turbine. Lecture Notes in Civil Engineering, 2019, , 639-648.   | 0.3 | 0         |
| 115 | Hysteresis Behavior for Wave Energy Conversion Device Under Alternative Axial Flow Conditions. Lecture Notes in Civil Engineering, 2019, , 717-723.                         | 0.3 | 0         |
| 116 | Control-Oriented Wave to Wire Model of Oscillating Water Column. Lecture Notes in Civil Engineering, 2019, , 705-716.   | 0.3 | 0         |
| 117 | High-performance ocean energy harvesting turbine design " A strategy of compound leaning. Journal of Physics: Conference Series, 2021, 1909, 012055.                        | 0.3 | 0         |
| 118 | Passive Flow Control Methods for Performance Augmentation in Air Turbines Used for Wave Energy Conversion" A Review. Ocean Engineering & Oceanography, 2022, , 419-444.     | 0.1 | 0         |
| 119 | Wells Turbine as a Power Take-Off Mechanism for Wave Energy Converters. Ocean Engineering & Oceanography, 2022, , 365-396.  | 0.1 | 0         |
| 120 | Leakage flow correlation of a progressive cavity pump delivering shear thinning non-Newtonian fluids. International Journal of Oil, Gas and Coal Technology, 2017, 16, 166. | 0.1 | 0         |
| 121 | Effect of Guide Vane Fillets on Wave Energy Harvesting Impulse Turbine. , 2019, , .   |     | 0         |
| 122 | Experimental study of Wells turbine with multiparameter modification for wave energy conversion. , 2021, , .  |     | 0         |