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This virtual issue contains the most accessed papers (downloads + views) in 2020 for each of the titles making up the ASME Journal Program.

### **Applied Mechanics Reviews (응용 역학 리뷰)**

[Kinetostatic and Dynamic Modeling of Flexure-Based Compliant Mechanisms: A Survey](#)

Mingxiang Ling, Larry L. Howell, Junyi Cao, Guimin Chen

### **Journal of Applied Mechanics (응용 역학 저널)**

[Recent Milestones in Unraveling the Full-Field Structure of Dynamic Shear Cracks and Fault Ruptures in Real-Time: From Photoelasticity to Ultrahigh-Speed Digital Image Correlation](#)

A. J. Rosakis, V. Rubino, N. Lapusta

### **Journal of Autonomous Vehicles and Systems (자율주행차 및 시스템 저널)**

[Probabilistic Modeling of Driver Behaviors at Urban Crossroad Interactions](#)

Yuan-Cheng Liu, Kuei-Yuan Chan

### **Journal of Biomechanical Engineering (생체 기계 공학 저널)**

[Clinical Contrast-Enhanced Computed Tomography With Semi-Automatic Segmentation Provides Feasible Input for Computational Models of the Knee Joint](#)

Katariina A. H. Myller, Rami K. Korhonen, Juha Töyräs, Petri Tanska, Sami P. Väänänen, Jukka S. Jurvelin, Simo Saarakkala, Mika E. Mononen

### **Journal of Computational and Nonlinear Dynamics (전산 및 비선형 역학 저널)**

[Railway Air Brake Model and Parallel Computing Scheme](#)

Qing Wu, Colin Cole, Maksym Spiryagin, Yucang Wang, Weihua Ma, Chongfeng Wei

### **Journal of Computing and Information Science in Engineering (공학의 컴퓨팅 및 정보 과학 저널)**

[A Review of the Capabilities of Current Low-Cost Virtual Reality Technology and Its Potential to Enhance the Design Process](#)

Joshua Q. Coburn, Ian Freeman, John L. Salmon

### **Journal of Dynamic Systems, Measurement, and Control (동적 시스템, 측정 및 제어 저널)**

[Toward Automated Vehicle Control Beyond the Stability Limits: Drifting Along a General Path](#)

Jonathan Y. Goh, Tushar Goel, J. Christian Gerdes

### **Journal of Electrochemical Energy Conversion and Storage (전기화학 에너지 변환 및 저장 저널)**

[A Review of State of Health Estimation of Energy Storage Systems: Challenges and Possible Solutions for Futuristic Applications of Li-Ion Battery Pack](#)

Sudipta Bijoy Sarmah, Pankaj Kalita, Akhil Garg, Xiao-dong Niu, Xing-Wei Zhang, Xiongbin Peng, Dipanwita Bhattacharjee

### **Journal of Electronic Packaging (전자 포장 저널)**

[Recent Advances and Trends in Fan-Out Wafer/Panel-Level Packaging](#)

John H. Lau

### **Journal of Energy Resources Technology (에너지 자원 기술 저널)**

[Experimental Study and Simulation of a Small-Scale Horizontal-Axis Wind Turbine](#)

Randall S. Jackson, Ryoichi Amano

### **Journal of Engineering for Gas Turbines and Power (가스터빈 및 전력 공학 저널)**

[Impact of Fuel Composition on Gas Turbine Engine Performance](#)

Dan Burnes, Alejandro Camou

### **Journal of Engineering Materials and Technology (엔지니어링 재료 및 기술 저널)**

[Enhanced Coarse-Graining of Thermoplastic Polyurethane Elastomer for Multiscale Modeling](#)

Md Salah Uddin, Jaehyung Ju

### **Journal of Engineering and Science in Medical Diagnostics and Therapy (의료 진단 및 치료의 공학 및 과학 저널)**

[Toward Automation of the Supine Pressor Test for Preeclampsia](#)

Hamna J. Qureshi, Jessica L. Ma, Jennifer L. Anderson, Brett M. Bosinski, Aditi Acharya, Rachel D. Bennett, David M. Haas, Abigail D. Cox, George R. Wodicka, David G. Reuter, Craig J. Goergen

**Journal of Engineering for Sustainable Buildings and Cities**(지속 가능한 건물 및 도시를 위한 엔지니어링 저널)

[A New Methodology to Assess Building Integrated Roof Top Photovoltaic Installations at City Scales: The Tropical Coastal City Case](#)

Rabindra Pokhrel, Andy Walker, Jorge E. González

**Journal of Fluids Engineering**(유체 공학 저널)

[Recent Advances in Physics of Fluid Parametric Sloshing and Related Problems](#)

Raouf A. Ibrahim

**Journal of Heat Transfer**(열전달 저널)

[Heat Transfer in Flat-Plate Boundary Layers: A Correlation for Laminar, Transitional, and Turbulent Flow](#)

John H. Lienhard

**ASME Letters in Dynamic Systems and Control**(동적 시스템 및 제어의 ASME letter)

[Data-Oriented State Space Discretization for Crowdsourced Robot Learning of Physical Skills](#)

Leidi Zhao, Lu Lu, Cong Wang

**Journal of Manufacturing Science and Engineering**(제조 과학 및 공학 저널)

[A Comparative Study on Machine Learning Algorithms for Smart Manufacturing: Tool Wear Prediction Using Random Forests](#)

Dazhong Wu, Connor Jennings, Janis Terpenney, Robert X. Gao, Soundar Kumara

**Journal of Mechanical Design**(기계 설계 저널)

[Nine Principles for Design for the Developing World as Derived From the Engineering Literature](#)

Christopher A. Mattson, Amy E. Wood

**Journal of Mechanisms and Robotics**(기계 및 로봇 공학 저널)

[Design and Development of a Compact High-Torque Robotic Actuator for Space Mechanisms](#)

Elias Brassitos, Nader Jalili

**Journal of Medical Devices**(의료 기기 저널)

[Proof of Concept of a Surrogate High-Adhesion Medical Tape Using Photo-Thermal Release for Rapid and Less Painful Removal](#)

Ashley F. Emery, Eric J. Seibel

**Journal of Micro and Nano-Manufacturing**(마이크로 및 나노 제조 저널)

[Simulation of Micro/Nanopowder Mixing Characteristics for Dry Spray Additive Manufacturing of Li-Ion Battery Electrodes](#)

Brandon Ludwig, Jin Liu, Yangtao Liu, Zhangfeng Zheng, Yan Wang, Heng Pan

**Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems**(엔지니어링 시스템의 비파괴 평가, 진단 및 예후 저널)

[Real-Time Monitoring of Wind Turbine Blade Alignment Using Laser Displacement and Strain Measurement](#)

Max Ovenden, Qing Wang, Songling Huang, Wei Zhao, Shen Wang

**Journal of Nuclear Engineering and Radiation Science**(원자력 공학 및 방사선 과학 저널)

[Current Status and Future Developments in Nuclear-Power Industry of the World](#)

I. Pioro, R. B. Duffey, P. L. Kirillov, R. Pioro, A. Zvorykin, R. Machrafi

**Journal of Offshore Mechanics and Arctic Engineering**(해양 역학 및 북극 공학 저널)

[Model Test of a 1:8-Scale Floating Wind Turbine Offshore in the Gulf of Maine](#)

Anthony M. Viselli, Andrew J. Goupee, Habib J. Dagher

**Journal of Pressure Vessel Technology**(압력 용기 기술 저널)

[Fatigue Crack Growth Thresholds at Negative Stress Ratio for Ferritic Steels in ASME Code Section XI](#)

Kunio Hasegawa, Bohumir Strnadel, Saburo Usami, Valery Lacroix

**ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering**(ASCE-ASME 엔지니어링 시스템의 위험 및 불확실성 저널, 파트 B: 기계 공학)

[The Application of Downhole Vibration Factor in Drilling Tool Reliability Big Data Analytics—A Review](#)

Yali Re, Ning Wang, Jinwei Jiang, Junxiao Zhu, Gangbing Song, Xuemin Chen

**Journal of Solar Energy Engineering**(태양 에너지 공학 저널)

[Experimental Test of Properties of KCl–MgCl<sub>2</sub> Eutectic Molten Salt for Heat Transfer and Thermal Storage Fluid in Concentrated Solar Power Systems](#)

Xiankun Xu, Xiaoxin Wang, Peiwen Li, Yuanyuan Li, Qing Hao, Bo Xiao, Hassan Elsentriecy, Dominic Gervasio

**Journal of Thermal Science and Engineering Applications**(열 과학 및 공학 응용 저널)

[Recent Advances in High-Flux, Two-Phase Thermal Management](#)

Issam Mudawar

**Journal of Tribology**(마찰학 저널)

[Extended Hertz Theory of Contact Mechanics for Case-Hardened Steels With Implications for Bearing Fatigue Life](#)

Nikhil D. Londhe, Nagaraj K. Arakere, Ghatu Subhash

**Journal of Turbomachinery**(터보 기계 저널)

[The Role of Tip Leakage Flow in Spike-Type Rotating Stall Inception](#)

M. Hewkin-Smith, G. Pullan, S. D. Grimshaw, E. M. Greitzer, Z. S. Spakovszky

**Journal of Verification, Validation and Uncertainty Quantification**(검증, 검증 및 불확실성 정량화 저널)

[Analytic Solutions as a Tool for Verification and Validation of a Multiphysics Model](#)

I. L. Tregillis, Aaron Koskelo

**Journal of Vibration and Acoustics**(진동 및 음향 저널)

[Transverse Vibrations and Stability of Axially Traveling Sandwich Beam With Soft Core](#)

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