

Peter Eberhard

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8047353/peter-eberhard-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

309
papers

3,543
citations

28
h-index

49
g-index

329
ext. papers

4,145
ext. citations

1.8
avg, IF

5.92
L-index

#	Paper	IF	Citations
309	Cooperative distributed nonlinear model predictive control of a formation of differentially-driven mobile robots. <i>Robotics and Autonomous Systems</i> , 2022 , 150, 103993	3.5	3
308	Uncertainty quantification of large-scale dynamical systems using parametric model order reduction. <i>Mechanical Systems and Signal Processing</i> , 2022 , 171, 108855	7.8	3
307	High Accuracy Data-Based Trajectory Tracking of an Omnidirectional Mobile Robot. <i>Mechanisms and Machine Science</i> , 2022 , 420-427	0.3	
306	An LSTM-based approach to precise landing of a UAV on a moving platform. <i>International Journal of Mechanical System Dynamics</i> , 2022 , 2, 99-107		
305	Cooperative transportation: realizing the promises of robotic networks using a tailored software/hardware architecture. <i>Automatisierungstechnik</i> , 2022 , 70, 378-388	0.8	1
304	Analysis of the cutting fluid behavior with a modified micro single-lip deep hole drilling tool. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2022 , 38, 93-104	3.4	0
303	Distinguishing geometrically identical instruments: Possibilistic identification of material parameters in a parametrically model order reduced finite element model of a classical guitar. <i>Journal of Sound and Vibration</i> , 2022 , 117071	3.9	0
302	Finding Formations for the Non-prehensile Object Transportation with Differentially-Driven Mobile Robots. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2022 , 163-170	0.6	
301	Non-Prehensile Cooperative Object Transportation with Omnidirectional Mobile Robots: Organization, Control, Simulation, and Experimentation 2021 ,		4
300	Cooperative Distributed Model Predictive Formation Control of Non-Holonomic Robotic Agents 2021 ,		4
299	Automated Upgraded Generalized Full-Discretization Method: Application to the Stability Study of a Thin-Walled Milling Process 2021 , 83-104		
298	Simplified modeling of electromagnets for dynamic simulation of transient effects for a synchronous electric motor. <i>International Journal of Mechanical System Dynamics</i> , 2021 , 1, 89-95		1
297	Adaptive Interaction Control of a Very Flexible Parallel Robot Manipulator. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 133-150	0.2	
296	Data-based Approach for Fault Diagnosis of Hydropower Rotors. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021 , 20, e202000354	0.2	
295	Transient dynamical-thermal-optical system modeling and simulation. <i>Journal of the European Optical Society-Rapid Publications</i> , 2021 , 17,	2.5	2
294	An entirely reverse-engineered finite element model of a classical guitar in comparison with experimental data. <i>Journal of the Acoustical Society of America</i> , 2021 , 149, 4450	2.2	4
293	Design and Experimental Validation of a Distributed Cooperative Transportation Scheme. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 18, 1157-1169	4.9	14

292	A comparative look at two formation control approaches based on optimization and algebraic graph theory. <i>Robotics and Autonomous Systems</i> , 2021 , 136, 103686	3.5	13
291	Static and Dynamic Modeling of the Electromagnets of the Maglev Vehicle Transrapid. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-15	2	8
290	Substructured Model Order Reduction for Simple Exchange of Subsystems. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021 , 20, e202000048	0.2	
289	Offset-free Nonlinear Model Predictive Control by the Example of Maglev Vehicles. <i>IFAC-PapersOnLine</i> , 2021 , 54, 83-90	0.7	0
288	Finding Useful Features in Vibration Signals for Fault Diagnosis. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021 , 20, e202000023	0.2	1
287	Comparison of Model Predictive and Graph Algebraic Approaches to Distributed Formation Control. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021 , 20, e202000084	0.2	
286	Trajectory tracking of an omnidirectional mobile robot using Gaussian process regression. <i>Automatisierungstechnik</i> , 2021 , 69, 656-666	0.8	2
285	Cutting-fluid flow with chip evacuation during deep-hole drilling with twist drills. <i>European Journal of Mechanics, B/Fluids</i> , 2021 , 89, 473-484	2.4	3
284	Data-Based Model of an Omnidirectional Mobile Robot Using Gaussian Processes. <i>IFAC-PapersOnLine</i> , 2021 , 54, 13-18	0.7	5
283	Learning-Based Model Predictive Control for Multi-Agent Systems using Gaussian Processes. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021 , 20, e202000009	0.2	1
282	Modeling, Simulation, and Vision-/MPC-Based Control of a PowerCube Serial Robot. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7270	2.6	2
281	Swarm Robots Search for Multiple Targets. <i>IEEE Access</i> , 2020 , 1-1	3.5	3
280	Stability Analysis of Multi-Discrete Delay Milling with Helix Effects Using a General Order Full-Discretization Method Updated with a Generalized Integral Quadrature. <i>Mathematics</i> , 2020 , 8, 1003 ²⁻³		5
279	Achieving high-precision transient local contact behavior without introducing unphysical dynamics. <i>Mechanism and Machine Theory</i> , 2020 , 148, 103785	4	0
278	Model-based vibration control for optical lenses. <i>Multibody System Dynamics</i> , 2020 , 49, 355-375	2.8	0
277	A physically based material model for the simulation of friction stir welding. <i>Materialpruefung/Materials Testing</i> , 2020 , 62, 603-611	1.9	0
276	Examination of polarization coupling in a plucked musical instrument string via experiments and simulations. <i>Acta Acustica</i> , 2020 , 4, 9	0.9	2
275	Model Order Reduction of Coupled, Parameterized Elastic Bodies for Shape Optimization. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2020 , 151-163	0.3	1

274	Transient gear contact simulations using a floating frame of reference approach and higher-order ansatz functions. <i>Acta Mechanica</i> , 2020 , 231, 1337-1350	2.1	2
273	An advanced study on discretization-error-based adaptivity in Smoothed Particle Hydrodynamics. <i>Computers and Fluids</i> , 2020 , 198, 104388	2.8	3
272	Nonlinear Position Control of a Very Flexible Parallel Robot Manipulator. <i>Computational Methods in Applied Sciences (Springer)</i> , 2020 , 155-162	0.4	1
271	Tracking of material orientation in updated Lagrangian SPH. <i>Computational Particle Mechanics</i> , 2019 , 6, 449-460	3	1
270	Tensor-Based Automatic Arbitrary Order Computation of the Full-Discretization Method for Milling Stability Analysis. <i>Advanced Structured Materials</i> , 2019 , 179-205	0.6	4
269	Multi-scale dynamics of particle dampers using wavelets: Extracting particle activity metrics from ring down experiments. <i>Journal of Sound and Vibration</i> , 2019 , 454, 1-13	3.9	5
268	Trajectory Tracking Control of a Very Flexible Robot Using a Feedback Linearization Controller and a Nonlinear Observer. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2019 , 26-33	0.6	3
267	Experimental study on a nonlinear observer application for a very flexible parallel robot. <i>International Journal of Dynamics and Control</i> , 2019 , 7, 1046-1055	1.7	6
266	Geometric element parameterization and parametric model order reduction in finite element based shape optimization. <i>Computational Mechanics</i> , 2019 , 63, 853-868	4	10
265	Consideration of polarization during the ray tracing for mechanically stressed lenses in dynamical-optical systems. <i>Optik</i> , 2019 , 193, 162923	2.5	1
264	Simulation of segmented mirrors with adaptive optics. <i>Advanced Optical Technologies</i> , 2019 , 8, 119-127	0.9	1
263	Hybrid Force/Position Control of a Very Flexible Parallel Robot Manipulator in Contact with an Environment 2019 ,		3
262	Measurement of contact force-deformation relation between two identical spheres during elastic-plastic impact. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2019 , 2019, 1009B0930	0	
261	Stereo Vision-based Autonomous Target Detection and Tracking on an Omnidirectional Mobile Robot 2019 ,		2
260	Investigating the Effect of Complex Particle Shapes in Partially Liquid-Filled Particle Dampers using Coupled DEM-SPH Methods. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900084	0.2	
259	Simulation of Thermoelastic Problems with the Finite Element Method. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900035	0.2	0
258	Numerical Analysis of Vibration Patterns in Hydropower Units. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900036	0.2	2
257	Sensitivity in Machining Systems. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900063		

256	Model Order Reduction of a Modular Scale Model of a High Rise Building. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900069	0.2	0
255	Nonlinear Model Predictive Control for a Maglev Vehicle regarding Magnetic Saturation and Guideway Irregularities. <i>IFAC-PapersOnLine</i> , 2019 , 52, 145-150	0.7	5
254	Optimization-Driven Control and Organization of a Robot Swarm for Cooperative Transportation. <i>IFAC-PapersOnLine</i> , 2019 , 52, 115-120	0.7	7
253	Investigating the dissipative effects of liquid-filled particle dampers using coupled DEMSPH methods. <i>Computational Particle Mechanics</i> , 2019 , 6, 257-269	3	6
252	Transient simulation and uncertainty analysis of brake systems using a fuzzy-parameterized multibody system approach. <i>Mathematics and Mechanics of Solids</i> , 2019 , 24, 40-51	2.3	0
251	Interface reduction of linear mechanical systems with a modular setup. <i>Multibody System Dynamics</i> , 2018 , 43, 1-19	2.8	1
250	Fundamental investigations on the spiking mechanism by means of laser beam welding of ice. <i>Journal of Laser Applications</i> , 2018 , 30, 012009	2.1	6
249	A contact detection algorithm for deformable tetrahedral geometries based on a novel approach for general simplices used in the discrete element method. <i>Computational Particle Mechanics</i> , 2018 , 5, 35-47	3	2
248	Fuzzy arithmetical stability analysis of uncertain machining systems. <i>Mechanical Systems and Signal Processing</i> , 2018 , 98, 534-547	7.8	15
247	Modeling the motion of the cooling lubricant in drilling processes using the finite volume and the smoothed particle hydrodynamics methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 329, 369-395	5.7	13
246	Moremba Model Order Reduction Package for Elastic Multibody Systems and Beyond 2018 , 141-166		4
245	Simulation of Abrasive Wear with a Coupled Approach Considering Particles of Different Sizes. <i>Springer Proceedings in Physics</i> , 2018 , 49-67	0.2	
244	Distributed Decision Making and Control for Cooperative Transportation Using Mobile Robots. <i>Lecture Notes in Computer Science</i> , 2018 , 89-101	0.9	4
243	Stability analysis of milling processes with varying workpiece dynamics. <i>Multibody System Dynamics</i> , 2018 , 42, 383-396	2.8	7
242	Investigation of dynamic stress recovery in elastic gear simulations using different reduction techniques. <i>Computational Mechanics</i> , 2018 , 62, 439-456	4	5
241	A Data-Driven Possibilistic Approach to the Identification of Uncertain Stability Lobe Diagrams. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800087	0.2	1
240	Model Order Reduction for Parameter Dependent Substructured Systems using Krylov Subspaces. <i>IFAC-PapersOnLine</i> , 2018 , 51, 553-558	0.7	5
239	Transient Simulation of Cooling-Lubricant Flow for Deep-Hole Drilling-Processes. <i>Procedia CIRP</i> , 2018 , 77, 78-81	1.8	5

238	Comparison of two model order reduction methods for elastic multibody systems with moving loads. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2017 , 231, 48-56	0.9	
237	Interpolation-based parametric model order reduction for material removal in elastic multibody systems. <i>Multibody System Dynamics</i> , 2017 , 39, 21-36	2.8	7
236	Simulation model of a gear synchronisation unit for application in a real-time HiL environment. <i>Vehicle System Dynamics</i> , 2017 , 55, 668-680	2.8	2
235	Musical instruments Sound synthesis of virtual idiophones. <i>Journal of Sound and Vibration</i> , 2017 , 395, 187-200	3.9	4
234	Influence of model order reduction methods on dynamicalOptical simulations. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2017 , 3, 1	1.1	1
233	Adaptive nonlinear model predictive control design of a flexible-link manipulator with uncertain parameters. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017 , 33, 529-542	2	13
232	Distributed model predictive formation control with discretization-free path planning for transporting a load. <i>Robotics and Autonomous Systems</i> , 2017 , 96, 211-223	3.5	11
231	Modeling of the incudo-malleolar joint within a biomechanical model of the human ear. <i>Multibody System Dynamics</i> , 2017 , 39, 291-310	2.8	3
230	Thermomechanically coupled conduction mode laser welding simulations using smoothed particle hydrodynamics. <i>Computational Particle Mechanics</i> , 2017 , 4, 473-486	3	14
229	Transient simulation of friction-induced vibrations using an elastic multibody approach. <i>Multibody System Dynamics</i> , 2017 , 39, 37-49	2.8	5
228	Transporting an elastic plate using a group of swarm mobile robots 2017 ,		5
227	Predicting the Influence of an Added Liquid in a Particle Damper using Coupled SPH and Discrete Element Method. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017 , 17, 31-32	0.2	2
226	Vibration of the Basilar Membrane and Fluid Pressure Distribution in the Human Cochlea. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017 , 17, 229-230	0.2	1
225	Interface-Reduction for Substructured Mechanical Systems with Constraints Using General Singular Value Decomposition. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017 , 17, 173-174	0.2	
224	Time-Dependent Parametric Model Order Reduction for Material Removal Simulations. <i>Modeling, Simulation and Applications</i> , 2017 , 491-504	1.1	2
223	A Stigmergy Based Search Method for Swarm Robots. <i>Lecture Notes in Computer Science</i> , 2017 , 199-209	0.9	3
222	On the influence of model reduction techniques in topology optimization of flexible multibody systems using the floating frame of reference approach. <i>Structural and Multidisciplinary Optimization</i> , 2016 , 53, 67-80	3.6	13
221	Restitution properties in direct central collision of three inelastic spheres. <i>Mechanical Engineering Journal</i> , 2016 , 3, 16-00278-16-00278	0.5	1

220	Simulation of laser welding using advanced particle methods. <i>GAMM Mitteilungen</i> , 2016 , 39, 149-169	1.8	18
219	Varying Workpiece Dynamics in Milling Stability Analysis. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 57-58	0.2	2
218	Strategies for the dynamical-optical simulation of high-performance optics 2016 ,		1
217	Using integrated multi-body systems for dynamical-optical simulations 2016 ,		2
216	Dynamic Analysis of Cold-Rolling Process Using the Finite-Element Method. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016 , 138,	3.3	10
215	TOWARDS MULTIPHYSICS SIMULATION OF DEEP PENETRATION LASER WELDING USING SMOOTHED PARTICLE HYDRODYNAMICS 2016 ,		2
214	Adaptive Model Predictive Control Design for Underactuated Multibody Systems with Uncertain Parameters. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016 , 145-152	0.6	2
213	Model Order Reduction of Large-Scale Finite Element Systems in an MPI Parallelized Environment for Usage in Multibody Simulation. <i>Archive of Mechanical Engineering</i> , 2016 , 63, 475-494		2
212	Modeling Abrasive Wear Caused by Small Solid Particles of Different Sizes. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 425-426	0.2	2
211	Fuzzy-Based Analysis of a Hill-Type Muscle Model. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 31-34	0.2	1
210	Interface and model reduction for efficient explicit simulations - a case study with nonlinear vehicle crash models. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2016 , 22, 380-396	1	11
209	Application of parametric model reduction with matrix interpolation for simulation of moving loads in elastic multibody systems. <i>Advances in Computational Mathematics</i> , 2015 , 41, 1049-1072	1.6	10
208	Interface Reduction for CMS Methods and Alternative Model Order Reduction. <i>IFAC-PapersOnLine</i> , 2015 , 48, 254-259	0.7	13
207	A high-order full-discretization method using Hermite interpolation for periodic time-delayed differential equations. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015 , 31, 406-415	2	9
206	Predicting abrasive wear with coupled Lagrangian methods. <i>Computational Particle Mechanics</i> , 2015 , 2, 51-62	3	8
205	Machining Process Simulations with Smoothed Particle Hydrodynamics. <i>Procedia CIRP</i> , 2015 , 31, 94-99	1.8	10
204	Experimental studies of control concepts for a parallel manipulator with flexible links. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 2685-2691	1.6	11
203	Sensitivity Computation for Uncertain Dynamical Systems Using High-dimensional Model Representation and Hierarchical Grids. <i>Procedia IUTAM</i> , 2015 , 13, 127-137		3

202	Experimental investigation of the three dimensional vibration of a small lightweight object. <i>Journal of Sound and Vibration</i> , 2015 , 334, 108-119	3.9	9
201	SVD-based improvements for component mode synthesis in elastic multibody systems. <i>European Journal of Mechanics, A/Solids</i> , 2015 , 49, 408-418	3.7	30
200	Inverse Fuzzy Arithmetic for the Quality Assessment of Substructured Models. <i>Procedia IUTAM</i> , 2015 , 13, 34-42		
199	Constraint mapping in a feedback linearization/MPC scheme for trajectory tracking of underactuated multibody systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 446-451	0.7	8
198	Active damping control for an underactuated multibody system. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015 , 15, 49-50	0.2	1
197	Coupling Elastic Bodies with an Enhanced Craig-Bampton-like Scheme. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015 , 15, 51-52	0.2	
196	Design and Programming for Cable-Driven Parallel Robots in the German Pavilion at the EXPO 2015. <i>Machines</i> , 2015 , 3, 223-241	2.9	18
195	A Reproducible Excitation Mechanism for Analyzing Electric Guitars. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015 , 15, 45-46	0.2	1
194	Review on contact simulation of beveloid and cycloid gears and application of a modern approach to treat deformations. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2015 , 21, 359-388	1	9
193	A Comprehensive Fuzzy Uncertainty Analysis of a Controlled Nonlinear System With Unstable Internal Dynamics. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2015 , 1,	1.4	4
192	Stability analysis of a thin-walled cylinder in turning operation using the semi-discretization method. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2014 , 30, 214-222	2	13
191	Technische Dynamik 2014 ,		1
190	Applied Dynamics 2014 ,		15
189	Controlling vibrations of a cutting process using predictive control. <i>Computational Mechanics</i> , 2014 , 54, 21-31	4	6
188	A local adaptive discretization algorithm for Smoothed Particle Hydrodynamics. <i>Computational Particle Mechanics</i> , 2014 , 1, 131-145	3	21
187	Particles-bridging the Gap between Solids and Fluids. <i>Procedia IUTAM</i> , 2014 , 10, 161-179		3
186	A discrete element model and its experimental validation for the prediction of draft forces in cohesive soil. <i>Journal of Terramechanics</i> , 2014 , 53, 93-104	2.2	37
185	Model Reduction of Large Scale Finite Element Models. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 41-42	0.2	1

184	A study of truly incompressible and weakly compressible Smoothed Particle Hydrodynamics methods to model incompressible flows with free surfaces. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 607-608	0.2	
183	Introduction of an Adaptive Smoothed Particles Hydrodynamics Formulation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 621-622	0.2	
182	Real-time Model Predictive Control of a Pendulum. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 907-908	0.2	1
181	Relative observation for multi-robot collaborative localisation based on multi-source signals. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2014 , 26, 571-591	2	4
180	Nonlinear Dynamic Analysis of a Parametrically Excited Cold Rolling Mill. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2014 , 136,	3.3	9
179	Aspects of Symbolic Formulations in Flexible Multibody Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2014 , 9,	1.4	4
178	Parametric Flexible Multibody Model for Material Removal During Turning. <i>Journal of Computational and Nonlinear Dynamics</i> , 2014 , 9,	1.4	10
177	Experimental and Numerical Analysis of Repeated Impacts between Two Spheres. <i>Applied Mechanics and Materials</i> , 2014 , 566, 250-255	0.3	0
176	Linear model reduction of large scale industrial models in elastic multibody dynamics. <i>Multibody System Dynamics</i> , 2014 , 31, 27-46	2.8	15
175	Simulation of Moving Loads in Elastic Multibody Systems With Parametric Model Reduction Techniques. <i>Archive of Mechanical Engineering</i> , 2014 , 61, 209-226		9
174	Finite Element Systems 2014 , 145-165		
173	Preface for the thematic issue: IMSD 2012. <i>Multibody System Dynamics</i> , 2013 , 30, 117-117	2.8	
172	On the applicability of static modes switching in gear contact applications. <i>Multibody System Dynamics</i> , 2013 , 30, 209-219	2.8	5
171	Dynamics in lithographic projection objectives. <i>Multibody System Dynamics</i> , 2013 , 30, 233-245	2.8	7
170	Investigation and design of an impact actuated micro shift valve. <i>Archive of Applied Mechanics</i> , 2013 , 83, 1171-1192	2.2	1
169	Simulation of cutting processes using mesh-free Lagrangian particle methods. <i>Computational Mechanics</i> , 2013 , 51, 261-278	4	26
168	Mechanical PSO Aided by Extremum Seeking for Swarm Robots Cooperative Search. <i>Lecture Notes in Computer Science</i> , 2013 , 64-71	0.9	7
167	Greedy-based approximation of frequency-weighted Gramian matrices for model reduction in multibody dynamics. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2013 , 93, 501-519	1	19

166	Sharing behavior of load transmission on gear pair systems actuated by parallel arrangements of multiple pinions. <i>Mechanism and Machine Theory</i> , 2013 , 65, 58-70	4	19
165	Static modes switching in gear contact simulation. <i>Mechanism and Machine Theory</i> , 2013 , 63, 89-106	4	17
164	A bonded-particle model for cemented sand. <i>Computers and Geotechnics</i> , 2013 , 49, 299-313	4.4	101
163	Sensor Data Fusion for the Localization and Position Control of One Kind of Omnidirectional Mobile Robots 2013 , 45-73		3
162	Nonlinear modelling of the middle ear as an elastic multibody system – Applying model order reduction to acousto-structural coupled systems. <i>Journal of Computational and Applied Mathematics</i> , 2013 , 246, 18-26	2.4	26
161	Automatisierte Modellreduktion großer elastischer Mehrkörpersysteme durch die Greedy-basierte Approximation der Gramschen Matrizen / Automated Model Reduction of Large Scale Elastic Multibody Systems with Greedy Based Approximation of Gramian Matrices. <i>Automatisierungstechnik</i> , 2013 , 61, 557-561	0.8	2
160	An approach for the coupled simulation of machining processes using multibody system and smoothed particle hydrodynamics algorithms. <i>Theoretical and Applied Mechanics Letters</i> , 2013 , 3, 013005	1.8	19
159	Durability-based shape optimization with application to a steering system. <i>Engineering Optimization</i> , 2013 , 45, 337-355	2	1
158	Improving the dynamic stability of a workpiece dominated turning process using an adaptronic tool holder. <i>Theoretical and Applied Mechanics Letters</i> , 2013 , 3, 013008	1.8	1
157	A Discrete Element Approach for Wave Propagation in Thin Rods. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2013 , 13, 31-32	0.2	1
156	Model reduction of an elastic crankshaft for elastic multibody simulations. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2013 , 93, 198-216	1	11
155	Cooperative Search by Combining Simulated and Real Robots in a Swarm under the View of Multibody System Dynamics. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 284782	1.2	1
154	Lagrangian Simulation of a Fluid with Solid Particle Loading Performed on Supercomputers 2013 , 405-421		
153	A Discrete Element Model for Degradation of Ballast Tracks. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2012 , 12, 49-50	0.2	
152	Influence of Internal Actuator Properties of Active Anti-Roll Systems on the Vehicle Driving Behaviour. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2012 , 12, 69-70	0.2	
151	A discrete element model predicting the strength of ballast stones. <i>Computers and Structures</i> , 2012 , 108-109, 3-13	4.5	45
150	A-posteriori error estimation for second order mechanical systems. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012 , 28, 854-862	2	6
149	Flexible multibody simulation of automotive systems with non-modal model reduction techniques. <i>Vehicle System Dynamics</i> , 2012 , 50, 1905-1922	2.8	12

148	A Discrete Element Approach to Model Breakable Railway Ballast. <i>Journal of Computational and Nonlinear Dynamics</i> , 2012 , 7,	1.4	16
147	Reconstruction of dynamical perturbations in optical systems by opto-mechanical simulation methods 2012 ,		1
146	Model Order Reduction in Elastic Multibody Systems using the Floating Frame of Reference Formulation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 40-48		34
145	Technische Dynamik 2012 ,		4
144	Optimization of the Dynamical Behavior of High-Performance Lens Systems to Reduce Dynamic Aberrations. <i>Archive of Mechanical Engineering</i> , 2011 , 58,		1
143	Einfluss von Schnittstellenmodellierungen bei der Reduktion elastischer Mehrkörpersysteme. <i>Automatisierungstechnik</i> , 2011 , 59, 512-519	0.8	6
142	A General Purpose Optimal Trajectory Planning Algorithm for Multibody Systems (1st Report, Open Loop Systems). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2011 , 77, 342-355		
141	Control Design for the Interactive 3D-Pendulum Presented at the World Exhibition EXPO 2010. <i>Journal of System Design and Dynamics</i> , 2011 , 5, 937-952		
140	A General Purpose Optimal Trajectory Planning Algorithm for Multibody Systems (2nd Report, Closed Loop Systems). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2011 , 77, 356-369		
139	Simulation-Based Stability Analysis of a Thin-Walled Cylinder During Turning with Improvements Using an Adaptronic Turning Chisel. <i>Archive of Mechanical Engineering</i> , 2011 , 58,		7
138	Prediction of draft forces in cohesionless soil with the Discrete Element Method. <i>Journal of Terramechanics</i> , 2011 , 48, 347-358	2.2	63
137	A thermal creep model for the contact of nominally flat surfaces: Jeffreys' linear visco-elastic model. <i>International Journal of Mechanical Sciences</i> , 2011 , 53, 910-917	5.5	4
136	Simulation process of flexible multibody systems with non-modal model order reduction techniques. <i>Multibody System Dynamics</i> , 2011 , 25, 313-334	2.8	58
135	Stress recovery with Krylov-subspaces in reduced elastic multibody systems. <i>Multibody System Dynamics</i> , 2011 , 25, 377-393	2.8	17
134	A discrete element model to describe failure of strong rock in uniaxial compression. <i>Granular Matter</i> , 2011 , 13, 341-364	2.6	60
133	Identification of validated multibody vehicle models for crash analysis using a hybrid optimization procedure. <i>Structural and Multidisciplinary Optimization</i> , 2011 , 44, 85-97	3.6	20
132	A PSO-based algorithm designed for a swarm of mobile robots. <i>Structural and Multidisciplinary Optimization</i> , 2011 , 44, 483-498	3.6	20
131	Experimental studies for verification of thermal effects in cutting. <i>Production Engineering</i> , 2011 , 5, 507-515		19

130	Modeling and parameter identification of amplitude- and frequency-dependent rubber isolator. <i>Journal of Central South University</i> , 2011 , 18, 672-678	2.1	15
129	Using Multibody Systems for the Investigation of Dynamic Aberrations in High Precision Optics. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011 , 11, 41-42	0.2	
128	Comparing exact inversion and singular perturbation approaches for a serial flexible manipulator. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011 , 11, 45-46	0.2	1
127	Analysis of repeated impacts on a steel rod with visco-plastic material behavior. <i>European Journal of Mechanics, A/Solids</i> , 2011 , 30, 336-344	3.7	21
126	Regelung des EXPO-Pendels. <i>Automatisierungstechnik</i> , 2011 , 59,	0.8	2
125	Cooperative Motion of Swarm Mobile Robots Based on Particle Swarm Optimization and Multibody System Dynamics. <i>Mechanics Based Design of Structures and Machines</i> , 2011 , 39, 179-193	1.7	20
124	Analysis of Granular Chute Flow Based on a Particle Model Including Uncertainties. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2011 , 121-134	0.3	2
123	Investigation of Gears Using an Elastic Multibody Model with Contact. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011 , 309-327	0.4	5
122	Optimization of Multibody Systems and Their Structural Components. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011 , 49-68	0.4	20
121	A General Purpose Algorithm for Optimal Trajectory Planning of Closed Loop Multibody Systems. <i>Computational Methods in Applied Sciences (Springer)</i> , 2011 , 173-193	0.4	6
120	The 3D-Pendulum at the World Exhibition 2010 IControl Design and Experimental Results. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2011 , 19-26	0.3	
119	Viscoplastic Effects Occurring in Impacts of Aluminum and Steel Bodies and Their Influence on the Coefficient of Restitution. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2010 , 77,	2.7	18
118	The role of the coefficient of restitution on impact problems in multi-body dynamics. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2010 , 224, 279-306	0.9	16
117	Dynamic simulation of sloshing fluid and granular cargo in transport vehicles. <i>Vehicle System Dynamics</i> , 2010 , 48, 3-15	2.8	23
116	Error-Controlled Model Reduction in Flexible Multibody Dynamics. <i>Journal of Computational and Nonlinear Dynamics</i> , 2010 , 5,	1.4	25
115	From Neweul to Neweul-M2: symbolical equations of motion for multibody system analysis and synthesis. <i>Multibody System Dynamics</i> , 2010 , 24, 25-41	2.8	54
114	Modeling and simulation of closed loop multibody systems with bodies-joints composite modules. <i>Multibody System Dynamics</i> , 2010 , 24, 389-411	2.8	14
113	Controller Design for a Test Bench for Seat Belt Systems. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2010 , 10, 41-42	0.2	

112	63982 MULTIBODY SIMULATION OF OPTICAL LENS SYSTEMS TO ANALYZE IMAGE ABERRATIONS(Robotics and Mechatronics). <i>The Proceedings of the Asian Conference on Multibody Dynamics</i> , 2010 , 2010.5, _63982-1_- _63982-9_		1
111	Modeling and Motion Planning for a Population of Mobile Robots. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2010 , 409-416	0.6	1
110	Topology Optimization of Large Motion Rigid Body Mechanisms With Nonlinear Kinematics. <i>Journal of Computational and Nonlinear Dynamics</i> , 2009 , 4,	1.4	19
109	Active Vibration Control for a Machine Tool With Parallel Kinematics and Adaptronic Actuator. <i>Journal of Computational and Nonlinear Dynamics</i> , 2009 , 4,	1.4	7
108	Computation of stability diagrams for milling processes with parallel kinematic machine tools. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2009 , 223, 117-129	1	5
107	An adaptronic approach to active vibration control of machine tools with parallel kinematics. <i>Production Engineering</i> , 2009 , 3, 207-215	1.9	14
106	Sloshing cargo in silo vehicles. <i>Journal of Mechanical Science and Technology</i> , 2009 , 23, 968-973	1.6	9
105	Investigation and design of a new shock absorbing device that cooperates between two colliding objects. <i>Journal of Mechanical Science and Technology</i> , 2009 , 23, 1040-1045	1.6	
104	Influence of model reduction techniques on the impact force calculation of two flexible bodies. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2009 , 9, 111-112	0.2	2
103	A Co-Simulation Approach for the 3D Dynamic Simulation of Vehicles Considering Sloshing in Cargo and Fuel Tanks. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2009 , 9, 133-134	0.2	3
102	Using Augmented Lagrangian Particle Swarm Optimization for Constrained Problems in Engineering. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2009 , 253-271	0.6	3
101	Longitudinal Repeated Impacts of an Elastic Sphere against a Steel Rod(Mechanical Systems). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2009 , 75, 1981-1988		
100	Optimization of Mechanical Systems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2009 , 237-252	0.6	1
99	Topology Optimized Synthesis of Planar Kinematic Rigid Body Mechanisms. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2009 , 287-302	0.6	2
98	Grid-Based Topology Optimization of Rigid Body Mechanisms. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2009 , 303-315	0.6	1
97	Simulation of Gear Hammering With a Fully Elastic Model 2009 , 195-207		1
96	Optimization of Mechatronic Systems using the Software Package NEWOPT/AIMS. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2009 , 273-285	0.6	
95	Design of Feed-Forward Control for Underactuated Multibody Systems with Kinematic Redundancy 2009 , 275-284		8

94	Examples for Modelling, Simulation and Visualization with the Discrete Element Method in Mechanical Engineering 2008 , 419-426		3
93	Aspects of Impact of Planar Deformable Bodies as Linear Complementarity Problems. <i>Multidiscipline Modeling in Materials and Structures</i> , 2008 , 4, 331-344	2.2	0
92	EFFECTS OF STRAIN RATE DEPENDENCY OF MATERIAL PROPERTIES IN LOW VELOCITY IMPACT. <i>International Journal of Modern Physics B</i> , 2008 , 22, 1165-1170	1.1	5
91	Simulation of material tests using meshfree Lagrangian particle methods. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2008 , 222, 327-338	0.9	6
90	Longitudinal Impact of Elastic Ball Against Steel Rod. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2008 , 74, 1993-2000		1
89	Comparison between two different mesh descriptions used for simulation of sieving processes. <i>Granular Matter</i> , 2008 , 10, 223-229	2.6	16
88	Stable Model Inversion for Underactuated Multibody Systems. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2008 , 8, 10135-10136	0.2	
87	Simulation of Force Transmission in Vehicle Steering Systems. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2008 , 8, 10145-10146	0.2	
86	Analysis of Dynamic Stability for Milling Processes with Varying Workpiece Dynamics. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2008 , 8, 10367-10368	0.2	12
85	Active Vibration Damping and Model-Based Control for an Adaptronic Actuator. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2008 , 8, 10875-10876	0.2	
84	Parallel load-balanced simulation for short-range interaction particle methods with hierarchical particle grouping based on orthogonal recursive bisection. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 74, 531-553	2.4	33
83	Sensitivity analysis for dynamic mechanical systems with finite rotations. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 74, 1897-1927	2.4	25
82	Nonlinear Position Control of a Scissor-like Kinematics with Elastic Bodies. <i>GAMM Mitteilungen</i> , 2008 , 31, 7-26	1.8	
81	Simulative and experimental investigation of impacts on gear wheels. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 4653-4662	5.7	34
80	Improving the computational efficiency and accuracy of the semi-discretization method for periodic delay-differential equations. <i>European Journal of Mechanics, A/Solids</i> , 2008 , 27, 975-985	3.7	33
79	Multibody Systems and Applied Dynamics. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2008 , 1-20	0.6	1
78	Segregation of Particulate Material Using the Discrete Element Method 2007 , 341-355		
77	Application of the discrete element method to model cohesive materials. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007 , 7, 4010013-4010014	0.2	

76	Hammering of gear wheels. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007 , 7, 4010017-4010018&2		
75	A two-step approach for model reduction in flexible multibody dynamics. <i>Multibody System Dynamics</i> , 2007 , 17, 157-176	2.8	49
74	Applications of the discrete element method in mechanical engineering. <i>Multibody System Dynamics</i> , 2007 , 18, 81-94	2.8	59
73	Collision detection for complicated polyhedra using the fast multipole method or ray crossing. <i>Archive of Applied Mechanics</i> , 2007 , 77, 503-521	2.2	12
72	Particle screening phenomena in an oblique multi-level tumbling reservoir: a numerical study using discrete element simulation. <i>Granular Matter</i> , 2007 , 9, 415-429	2.6	14
71	Adaptronic Vibration Damping for Machine Tools. <i>CIRP Annals - Manufacturing Technology</i> , 2007 , 56, 379-382	4.9	20
70	Linear Viscoelastic Creep Model for the Contact of Nominal Flat Surfaces Based on Fractal Geometry: Standard Linear Solid (SLS) Material. <i>Journal of Tribology</i> , 2007 , 129, 461-466	1.8	22
69	A New Curve Tracking Algorithm for Efficient Computation of Stability Boundaries of Cutting Processes. <i>Journal of Computational and Nonlinear Dynamics</i> , 2007 , 2, 360-365	1.4	5
68	Augmented Lagrangian Particle Swarm Optimization in Mechanism Design. <i>Journal of System Design and Dynamics</i> , 2007 , 1, 410-421		15
67	Design Optimization of Rigid Body Mechanism Topology 2007 ,		1
66	Impact Studies of Gears in Combustion Engines 2007 , 243-256		1
65	Frictional Impact of Planar Deformable Bodies 2007 , 23-32		0
64	Parallel Load Balanced Particle Simulation with Hierarchical Particle Grouping Strategies 2007 , 33-44		
63	Aspects of Contact Problems in Computational Multibody Dynamics 2007 , 23-47		3
62	Modellreduktion in elastischen Mehrkörpersystemen (Model Reduction in Flexible Multibody Systems). <i>Automatisierungstechnik</i> , 2006 , 54, 170-177	0.8	11
61	Computational Dynamics of Multibody Systems: History, Formalisms, and Applications. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006 , 1, 3	1.4	101
60	Analysis of alternative front suspension systems for motorcycles. <i>Vehicle System Dynamics</i> , 2006 , 44, 679-689	2.8	5
59	A linear complementarity formulation on position level for frictionless impact of planar deformable bodies. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2006 , 86, 807-817	1	14

58	Computation of Screening Phenomena in a Vertical Tumbling Cylinder. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2006 , 6, 83-84	0.2	4
57	An Experimental and Numerical Study of Deformable Bodies Contact. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2006 , 6, 97-98	0.2	1
56	Elastoplastic phenomena in multibody impact dynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 6874-6890	5.7	39
55	Dynamic analysis of flexible manipulators, a literature review. <i>Mechanism and Machine Theory</i> , 2006 , 41, 749-777	4	568
54	On the use of moment-matching to build reduced order models in flexible multibody dynamics. <i>Multibody System Dynamics</i> , 2006 , 16, 191-211	2.8	30
53	Rigid-elastic modeling of meshing gear wheels in multibody systems. <i>Multibody System Dynamics</i> , 2006 , 16, 55-71	2.8	56
52	Flatness-Based Control of Parallel Kinematics using Multibody Systems Simulation and Experimental Results. <i>Archive of Applied Mechanics</i> , 2006 , 76, 181-197	2.2	13
51	Simulation of impacts in geartrains using different approaches. <i>Archive of Applied Mechanics</i> , 2006 , 76, 537-548	2.2	23
50	Using augmented Lagrangian particle swarm optimization for constrained problems in engineering" >Using augmented Lagrangian particle swarm optimization for constrained problems in engineering. <i>Structural and Multidisciplinary Optimization</i> , 2006 , 32, 277-286	3.6	89
49	Multilevel Numerical Algorithms and Experiments for Contact Dynamics 2006 , 271-319		
48	Dynamics of Poured Polyhedra of Different Shape 2006 , 245-269		3
47	Numerical and experimental evaluation of the coefficient of restitution for repeated impacts. <i>International Journal of Impact Engineering</i> , 2005 , 32, 508-524	4	86
46	A modular formulation for flexible multibody systems including nonlinear finite elements. <i>Journal of Mechanical Science and Technology</i> , 2005 , 19, 461-472	1.6	
45	Optimization of Mechatronic Systems Using the Software Package NEWOPT/AIMS. <i>Multibody System Dynamics</i> , 2005 , 13, 85-100	2.8	4
44	Multi-Criteria Optimization of a Hexapod Machine. <i>Multibody System Dynamics</i> , 2005 , 14, 225-250	2.8	3
43	Impact Analysis using Modal Reduction. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2005 , 5, 129-130		
42	Contact of Planar Flexible Multibody Systems Using a Linear Complementarity Formulation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2005 , 5, 197-198	0.2	10
41	Dynamical Particle Simulation with Parallel Cache-Aware Domain Decomposition Strategies. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2005 , 5, 657-658	0.2	5

40	Optimal Control for Static Stiffness and Thermal Sensitivity of a Hexapod Machine Tool. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2005 , 5, 663-664	0.2	
39	A Control Concept for Parallel Kinematics 2005 , 255-265		1
38	Multi-Criteria Optimization of a Hexapod Machine 2005 , 319-343		2
37	Flexibility Optimization of a Hexapod Machine Tool. <i>GAMM Mitteilungen</i> , 2004 , 27, 46-65	1.8	1
36	Simulation of Longitudinal Impact Waves Using Time Delayed Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2004 , 126, 644-649	1.6	6
35	Optimization of Nonlinear Mechanical Systems under Constraints with the Particle Swarm Method. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2004 , 4, 169-170	0.2	9
34	Flatness-based control of a machine tool with lambda kinematic. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 135-140		4
33	Technische Dynamik 2004 ,		40
32	Flexible Multibody Systems With Large Deformations Using Absolute Nodal Coordinates for Isoparametric Solid Brick Elements 2003 , 1		10
31	Numerical and Experimental Investigation of Radial Impacts on a Half-Circular Plate. <i>Multibody System Dynamics</i> , 2003 , 9, 265-281	2.8	27
30	Flexible Multibody Systems with Large Deformations and Nonlinear Structural Damping Using Absolute Nodal Coordinates. <i>Nonlinear Dynamics</i> , 2003 , 34, 31-52	5	32
29	Parallel Evolutionary Optimization of Multibody Systems with Application to Railway Dynamics. <i>Multibody System Dynamics</i> , 2003 , 9, 143-164	2.8	31
28	Optimization of a contact surface. <i>Structural and Multidisciplinary Optimization</i> , 2003 , 25, 339-345	3.6	1
27	Contact Simulation for Many Particles Considering Adhesion. <i>Mechanics Based Design of Structures and Machines</i> , 2003 , 31, 433-457	1.7	5
26	Comparison of Analytical and Experimental Results for Longitudinal Impacts on Elastic Rods. <i>JVC/Journal of Vibration and Control</i> , 2003 , 9, 157-174	2	33
25	Comparison of Analytical and Experimental Results for Longitudinal Impacts on Elastic Rods. <i>JVC/Journal of Vibration and Control</i> , 2003 , 9, 157-174	2	19
24	Multi-time Scale Simulation of Longitudinal Impact Responses. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2003 , 205-211	0.3	
23	Optimization of a reconstructed middle ear using an evolution strategy 2003 , 2213-2217		

22	Frictional contact of flexible and rigid bodies. <i>Granular Matter</i> , 2002 , 4, 25-36	2.6	16
21	Longitudinal Waves in Elastic Rods with Discontinuous Cross Sections. <i>Solid Mechanics and Its Applications</i> , 2002 , 117-124	0.4	3
20	Symbolic computation of longitudinal impact waves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001 , 190, 4805-4815	5.7	8
19	Jacobian motion and its derivatives. <i>Mechatronics</i> , 2001 , 11, 563-593	3	4
18	SYMBOLICAL IMPACT ANALYSIS FOR A FALLING CONICAL ROD AGAINST THE RIGID GROUND. <i>Journal of Sound and Vibration</i> , 2001 , 240, 41-57	3.9	12
17	Collision Detection Using Interpolation Schemes. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2000 , 6, 309-322	1	2
16	Control and Parameter Optimization of Flexible Robots*. <i>Mechanics Based Design of Structures and Machines</i> , 2000 , 28, 137-168		11
15	CONTROL OPTIMIZATION F MULTIBODY SYSTEMS SING POINT- AND PIECEWISE EFINED OPTIMIZATION CRITERIA. <i>Engineering Optimization</i> , 2000 , 32, 417-438	2	5
14	Closure to Discussion of Response Bounds for Linear Damped Systems (2000, ASME J. Appl. Mech., 67, p. 636). <i>Journal of Applied Mechanics, Transactions ASME</i> , 2000 , 67, 637-637	2.7	
13	Investigations for the Dynamical Analysis of Human Motion. <i>Multibody System Dynamics</i> , 1999 , 3, 1-20	2.8	19
12	Some advantages of stochastic methods in multicriteria optimization of multibody systems. <i>Archive of Applied Mechanics</i> , 1999 , 69, 543-554	2.2	29
11	OPTIMIZATION OF DAMPING CHARACTERISTICS IN VEHICLE DYNAMICS. <i>Engineering Optimization</i> , 1999 , 31, 435-455	2	3
10	Automatic differentiation of numerical integration algorithms. <i>Mathematics of Computation</i> , 1999 , 68, 717-732	1.6	34
9	Hierarchical modeling in multibody dynamics. <i>Archive of Applied Mechanics</i> , 1998 , 68, 237-246	2.2	15
8	Some Aspects of Algorithmic Differentiation of Ordinary Differential Equations. <i>Lecture Notes in Economics and Mathematical Systems</i> , 1998 , 294-304	0.4	
7	Collision detection for contact problems in mechanics with a boundary search algorithm. <i>Mathematical Modelling of Systems</i> , 1997 , 3, 265-281		3
6	Dynamic System Design via Multicriteria Optimization. <i>Lecture Notes in Economics and Mathematical Systems</i> , 1997 , 467-478	0.4	8
5	Interactive modelling of multibody systems with an object oriented data model. <i>Mathematical Modelling of Systems</i> , 1996 , 2, 55-68		1

4	Automated Approach for Optimizing Dynamic Systems 1994 , 225-235		2
3	Analyzing and Optimizing Multibody Systems. <i>Mechanics Based Design of Structures and Machines</i> , 1992 , 20, 67-92		81
2	Geometric definition, rapid prototyping, and cutting force analysis of cylindrical milling tools with arbitrary helix angle variations. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> ,095440542110729	2.4	4
1	Cutting fluid behavior under consideration of chip formation during micro single-lip deep hole drilling of Inconel 718. <i>International Journal of Modelling and Simulation</i> ,1-15	1.5	1