

ANNUAL REPORT 2021

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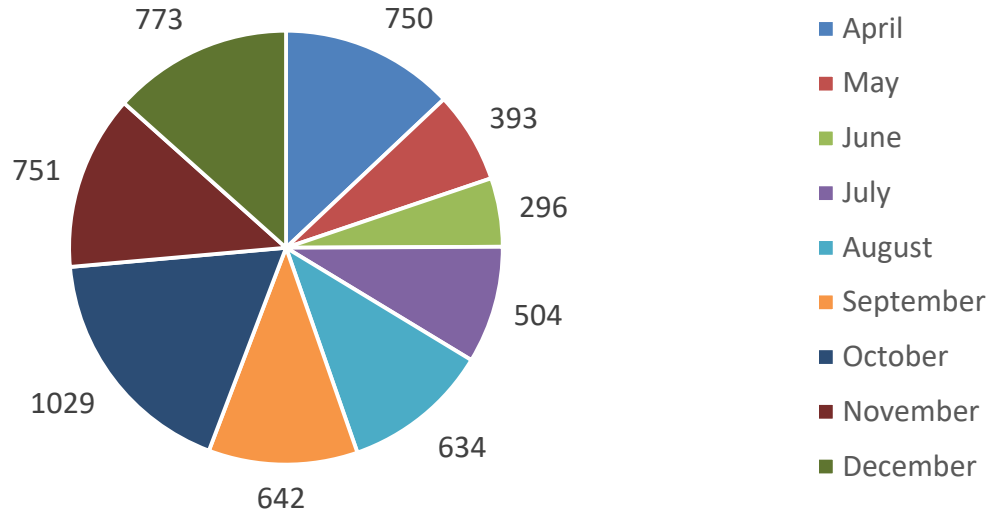
During 2021 the the publishing process moved to a new Open Journal System (OJS) platform. The new system is used for manuscripts submitted from December 2020 onwards. The new webpage (<https://ojs.cvut.cz/ojs/index.php/cej>) and contact cej-redaction@cvut.cz fully replaces the original, although the archive has been preserved and is linked to the original webpage.

The update motivation lied in the number of submitted papers that is constantly rising and reached over 150 in 2020. The OJS redaction system helps the redaction team to manage submissions faster and provides authors and the redaction team with monitoring of the entire editorial process.

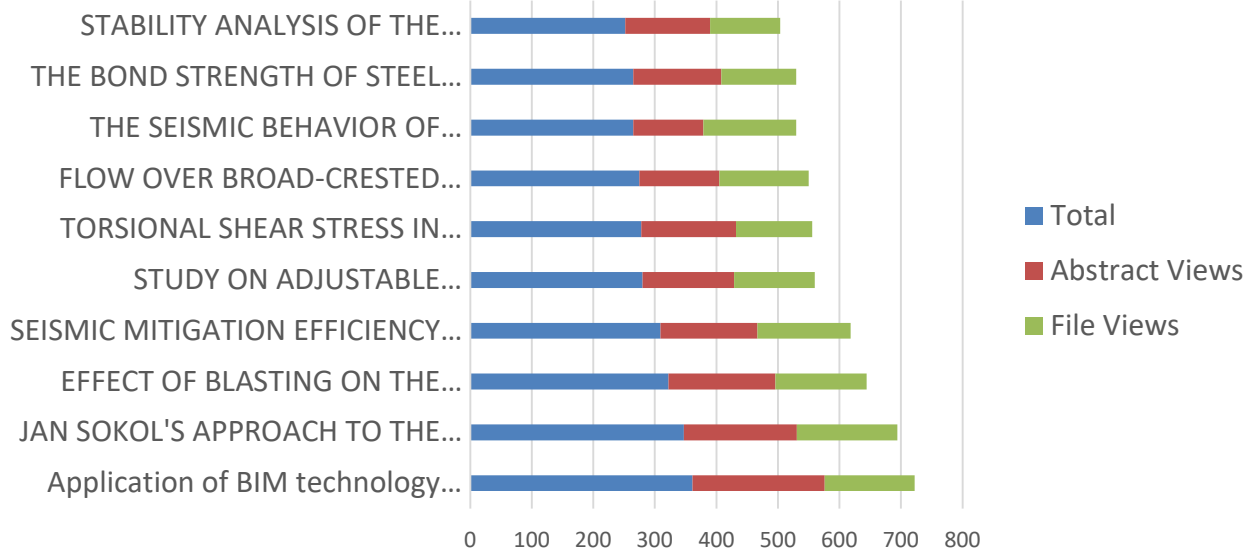
PERFORMANCE OVERVIEW

In 2021, the journal continued to attract a strong and diverse range of manuscripts from both domestic and international research teams. A total of 242 submissions were received, reflecting sustained interest in publishing high-quality research in civil engineering. Of these submissions, 73 manuscripts were accepted for publication, corresponding to an acceptance rate of approximately 30%. The journal declined 136 manuscripts, ensuring that published articles met rigorous scholarly and technical standards. The remaining submissions were still under consideration at the end of the year or withdrawn by the authors. The editorial team placed significant emphasis on maintaining a transparent and efficient peer-review process. The average time to the first editorial decision was 79 days, which includes initial screening, assignment to reviewers, and the return of the first round of reviews. While this timeframe reflects the complexity of evaluating highly technical engineering manuscripts, the journal remains committed to further optimizing editorial workflows to enhance author experience. In total, 73 articles were published across the year's issues, covering a wide spectrum of civil engineering topics, the high number of published papers is due to redaction system update. The published works demonstrate both the scientific depth and the practical relevance that characterize the journal's mission.

Number of website views per month



10 most cited articles



2021 CONTENT REPORT

A list of published manuscripts with authors and their nationality follows:

Volume	Manuscript title	Author(s)	Country
1	<u>JAN SOKOL'S APPROACH TO THE RENEWAL OF MONUMENTS WITH AN EMPHASIS ON HIS ACTIVITIES AT PRAGUE CASTLE</u>	Martin Šnorbert	Czech Republic
1	<u>SEISMIC MITIGATION EFFICIENCY STUDY OF THE COUPLING BEAM DAMPER IN THE SHEAR WALL STRUCTURE</u>	Xin Huang	China
1	<u>STUDY ON SURFACE STABILITY AND RESIDUAL DEFORMATION OF OLD GOAF IN DONGJIAGOU MINE, CHINA</u>	Zechuang Li, Peifeng Cheng, Zhibin Liu, Junjie Zheng	China
1	<u>EFFECT OF BLASTING ON THE STABILITY OF LINING DURING EXCAVATION OF NEW TUNNEL NEAR THE EXISTING TUNNEL</u>	Tuan Minh Tran , Quang Huy Nguyen	Vietnam
1	<u>TRAFFIC VOLUMES TEST OF AIRPORT RUNWAY</u>	Xingang Shi, Liangcai Cai, Guanhu Wang	China
1	<u>GENERATION OF CRACKS IN HIGHWAY EMBANKMENT ON BLACK COTTON SOIL</u>	Yongzhen Cheng, Yun Dong, Jingke Wu, Baoliang Li, Jihua Zhang	China
1	<u>THE SEISMIC BEHAVIOR OF BURIED SEABED WALLS IN LIQUEFACTION SOIL</u>	Javad Royaei, Kabir Sadeghi	Turkey
1	<u>RESEARCH ON THE INFLUENCE OF MILD STEEL DAMPERS ON SEISMIC PERFORMANCE OF SELF-RESETTING PIER</u>	Mengqiang Guo, Yanli Shen	China
1	<u>ANALYSIS OF LATERAL DISPLACEMENT AND EVALUATION OF TREATMENT MEASURES OF CURVED BEAM: A CASE STUDY</u>	Jie Li, Dongchao Liang, Junfeng Zhang, Zhaodong Shi, Huai Chen	China
1	<u>ENHANCEMENT OF CONCRETE PIPES THROUGH REINFORCEMENT WITH DISCRETE FIBERS</u>	Parviz Soroushian, Shervin Jahangirnejad	USA
1	<u>EXPERIMENTAL STUDY ON THE MECHANICAL AND DEFORMATION PROPERTIES OF PIPE AND SOIL IN RECTANGULAR PIPE JACKING CONSTRUCTION WITH CONTROLLABLE CEMENT GROUTING TECHNOLOGY</u>	Jun Tang, Shengcai Li	China
1	<u>RESEARCH ON MODELING AND OPTIMIZATION PROGRAM OF LONG-SPAN HYBRID GRID HANGAR BASED ON LEVERAGE PRINCIPLE</u>	Wenbo Zhang, Deyou Wang, Guangshun Shi	China
1	<u>THE BOND STRENGTH OF STEEL BAR BASE ON RIB GEOMETRY BAR IN PULLOUT TEST</u>	Anis Rosyidah, Johannes Adhijoso Tjondro, I Ketut Sucita	Indonesia
1	<u>MODELLING AND DYNAMIC ANALYSIS OF THREE-DIRECTION GRID PRESTRESSED RETICULATED MEGA-STRUCTURE</u>	Wenbo Zhang, Fang Liu, Liangliang Zou, Pei xiang Chen	China

1	<u>MECHANICAL RESPONSE ANALYSIS AND TREATMENT MEASURES OF PARTITION WALL OF METRO STATION</u>	Jin-long Lai, Jin-liang Liu, Jian-yong An, Hang Jia, Jia Ma	China
1	<u>DISPLACEMENTS OF SIDE WALLS WITH WALL-GIRTS IN INDUSTRIAL BUILDINGS UNDER VERTICAL SETTLEMENTS</u>	Noemí M. Subelza, Verónica A. Pedrozo, Rossana C. Jaca, Luis A. Godoy	Argentina
1	<u>NUMERICAL INVESTIGATION OF GLASS-FIBER REINFORCED PLASTIC MORTAR PIPES CULVERT RESPONSE TO HEAVY TRUCK LOADS</u>	Huawang Shi, Chencheng Gu, Chongchong Xue, Yancang Li	China
1	<u>REAL-TIME MONITORING DEFORMATION OF BUILDING USING PHOTOGRAPHY DYNAMIC MONITORING SYSTEM</u>	Yongquan Ge, Chengxin Yu, Tonglong Zhao, Xiaodong Liu	China
1	<u>FLOW OVER BROAD-CRESTED WEIR WITH INFLOW BY APPROACH SHAFT - NUMERICAL MODEL</u>	Jakub Major, Martin Orfánus, Zbyněk Zachoval	Czech Republic
1	<u>THEORETICAL SOLUTION OF PILING COMPACTION AND THE INFLUENCE OF PILE-SOIL-BOUNDARY CURVE HYPOTHESIS</u>	Zi-kun Gao	China
1	<u>STABILITY ANALYSIS OF THE GRAVITY ANCHORAGE OF A SUSPENSION BRIDGE BASED ON LARGE-SCALE FIELD TESTS</u>	Zhijun Zhou, Chaoran Chen, Longfei Wang, Yeqing Tian, Hongming Feng, Kangchao Wang	China
1	<u>ANALYZING THE EFFECT OF MICRO RUBBER, MICRO SIO₂. AND NANO SIO₂ IN MICROCRACKS IN SELF-CONSOLIDATING CONCRETE (SEM OBSERVATION)</u>	Ehsan Adili, Moein Riginejad	Iran
1	<u>STUDY ON PERMEABILITY AND ELECTRICAL RESISTIVITY OF RED CLAY CONTAMINATED BY CU₂⁺</u>	Rulong Ban, Xuejun Chen, Yu Song, Pengyan Bi, Xin Yang, Xiaochen Zhang	China
1	<u>EVALUATION OF THE EFFECT OF EXTERNAL PRESTRESSED STEEL STRANDS ON CABLE-STAYED BRIDGES BASED ON FINITE ELEMENT ANALYSIS AND STATIC TEST</u>	Chunwei Li, Haitao Yu, Dongzhe Jia, Quansheng Sun	China
1	<u>BEARING CAPACITY OF SINGLE-ANGLE COMPRESSION MEMBER: EXPERIMENTAL AND NUMERICAL INVESTIGATION</u>	Javad Majrouhi Sardroud, Mohammad Hossein Zaghian	Iran
1	<u>BUCKLING DELAMINATION IN COMPRESSED NO-TENSION HOMOGENEOUS BRITTLE BEAM-COLUMNS REINFORCED WITH FRP</u>	Francesco Marchione	Italy
1	<u>STRUCTURAL CARTOGRAPHIC ANALYSIS OF A THEMATIC ATLAS WORK</u>	Tomáš Janata, Petra Jílková, Jan Daniel Bláha	Czech Republic
2	<u>STUDY ON ADJUSTABLE CONNECTOR OF RECIPROCAL FRAME</u>	Lin Qi, Zifei Li, Hui Pan, Lingtong Li, Xin Huang	China
2	<u>STUDY ON REINFORCEMENT OF FABRICATED HOLLOW SLAB BRIDGE BY POLYURETHANE-CEMENT COMPOSITE (PUC)</u>	Kexin Zhang, Tianyu Qi, Zhimin Zhu, Xingwei Xue	China

2	<u>TORSIONAL SHEAR STRESS IN PRISMATIC BEAMS WITH ARBITRARY CROSS-SECTIONS USING FINITE ELEMENT METHOD</u>	Dang-Bao Tran	Czech Republic / Vietnam
2	<u>EFFECT FACTORS' SELECTION AND PREDICTION OF COMPRESSIVE STRENGTH OF SCC USING A HYBRID NETWORK BASED ON GA</u>	Wei Liang, Ming Lin, Jiangfeng Dong, Shucheng Yuan	China
2	<u>RESEARCH ON THE KEY TECHNOLOGY OF TIED-ARCH BRIDGE INCREMENTAL LAUNCHING METHOD CONSTRUCTION</u>	Kexin Zhang	China
2	<u>BENEFIT FROM CHAINED MASONRY WALLS TO IMPROVE THE SEISMIC RESPONSE OF REINFORCED CONCRETE BUILDINGS</u>	Abdelkader Nour, Abdelkader Benanane, Humberto Varum	Algeria, Portugal
2	<u>SUSPEN DOME: AN EVALUATION WITH CFRP CABLES</u>	IfeOlorun Olofin	China
2	<u>MECHANICAL BEHAVIOR OF HORIZONTAL SWIVEL SYSTEM WITH UHPC SPHERICAL HINGE UNDER SEISMIC ACTION</u>	Jiawei Wang, Bing Cao, Bo Huang, Yihan Du	China
2	<u>EXPERIMENTAL STUDY ON THE RATE OF ABSORPTION OF WATER OF BASALT, POLYPROPYLENE, AND STEEL FIBERS REINFORCED CONCRETE</u>	Sadi Ibrahim Haruna	China, Nigeria
2	<u>MECHANICAL PROPERTIES OF STEEL-POLYPROPYLENE HYBRID FIBER REINFORCED CONCRETE IN BUILDING STRUCTURE</u>	Tao Zhang, Deng Pan	China
2	<u>STRENGTH, DURABILITY AND MICROSTRUCTURE INVESTIGATIONS OF CONCRETE CONTAINING EMPTY PALM OIL FRUIT BRUNCH ASH (EPO-FBA)</u>	Christopher Fapohunda	Nigeria
2	<u>STUDY ON ARRANGEMENT OF COOLING WATER PIPE TO CONTROL HYDRATION HEAT OF CONCRETE IN BEAM OF CABLE-STAYED BRIDGE</u>	Long Liu, Saisai Yu, Wentao Xu, Zhilong Wang	China
2	<u>APPLICATION OF BIM TECHNOLOGY COMBINED WITH ARTIFICIAL INTELLIGENCE IN CONSTRUCTION MANAGEMENT</u>	Guoan Wei	China
2	<u>MACHINE LEARNING BASED MODELLING FOR ESTIMATION OF THE FUNDAMENTAL TIME PERIOD OF PRECAST CONCRETE STRUCTURES USING COMPUTER PROGRAMMING</u>	NITIN DAHIYA	India
2	<u>STUDY ON THE PROPERTIES OF POLYURETHANE-CEMENT COMPOSITE (PUC)</u>	Kexin Zhang	China
	<u>ANALYSIS OF DYNAMIC AND STATIC CHARACTERISTICS OF PIPELINE SUSPENSION BRIDGE WITH WIND CABLES</u>	Long Liu, Wenqi Li	China
2	<u>STUDY ON THE DESIGN OF HEATING AND ENERGY SAVING OF ENCLOSURE STRUCTURE OF RURAL SELF-BUILT HOUSES</u>	Weixian Chang	China

3	<u>ANALYSIS OF A LAYOUT SOLUTION OF DESIGN BY CTU STUDENTS - ÚSTĚK RECTORY</u>	Helena Hexnerová	Czech Republic
3	<u>SEISMIC PERFORMANCE OF PRECAST COLUMNS CONNECTED WITH TWO DIFFERENT CONNECTION MODES</u>	Chuanlin Wang	China
3	<u>MECHANICAL PROPERTIES OF LIGHTWEIGHT FOAMED CONCRETE REINFORCED WITH RAW MESOCARP FIBRE</u>	Md Azree Othuman Mydin	Malaysia
3	<u>STUDY ON SPATIAL STRESS EFFECT OF PC CONTINUOUS THIN-WALLED BOX GIRDER BRIDGE</u>	Honglei Zhang	China
3	<u>EVALUATION OF EFFECTIVE POLYMER FIBER LENGTH ON ENERGY ABSORPTION CAPACITY OF REINFORCED BEAMS BY EBR AND NSM METHODS</u>	Komeyl Karimi-Moridani	Iran
3	<u>STUDY ON BONDING PROPERTY OF POLYURETHANE CEMENT (PUC) TO STEEL BAR</u>	Kexin Zhang	China
3	<u>BACK ANALYSIS OF OSTERBERG-CELL PILE LOAD TEST BY MEANS OF THREE-DIMENSIONAL GEOTECHNICAL MODELING</u>	Szilárd Kanizsár	Hungary
3	<u>RESEARCH ON FORCE AND MODAL ANALYSIS OF THE CANTILEVER ROOF MODEL OF A STADIUM</u>	Qian Zhang	China
3	<u>DAMAGE ASSESSMENT OF CONSTRUCTION COMPONENTS</u>	James Rilatupa	Indonesia
3	<u>COMPARATIVE ANALYSIS OF SPATIAL STRESS IN THE JOINT ZONE OF TOWER PIER UNDER DIFFERENT SYSTEMS OF CABLE-STAYED BRIDGE</u>	Long Liu, Yingying Bi	China
3	<u>PRESSED NON-FIRED BRICKS FROM PHOSPHOGYPSUM WASTE FOR NON-LOAD BEARING WALL</u>	Lassaad Ajam, Zied Kammoun	Tunisia
3	<u>STUDY ON THE INFLUENCE OF SUDDEN CHANGE OF WATER LEVEL ON HIGH FILL CANAL SEGMENT</u>	Chenyang Yuan, Xinyong Xu, Xiangtian Nie, Weifeng Bai	China
3	<u>FREE STATION TASK WITH DRONE</u>	David Zahradník	Czech Republic
3	<u>EFFECT OF RISK ANALYSIS ON PERFORMANCE OF CONSTRUCTION PROJECTS IN KUWAIT</u>	Rashid Aldaiyat	Kuwait
3	<u>GEOPHYSICAL SURVEY AS A TOOL TO REVEAL SUBSURFACE STRATIFICATION AT A SMALL AGRICULTURAL HEADWATER CATCHMENT: A CASE STUDY</u>	Jakub Jeřábek, David Zumr	Czech Republic
4	<u>EFFECTS OF SHEAR WALLS ON A TYPICAL FOUR-STORY REINFORCED CONCRETE STRUCTURE SUBJECTED TO SEVERE EARTHQUAKE EVENTS</u>	Nader Zad, Hani Melhem	USA
4	<u>CRACK ANALYSIS OF CFRP REINFORCED CONCRETE BEAMS UNDER SECONDARY LOADING</u>	Jinliang Liu, Jiawei Wang, Yanmin Jia	China

4	<u>IMPROVED ANALYSIS OF A PROPPED CANTILEVER UNDER LATERAL VIBRATION</u>	Victor Okonkwo, Chukwurah Aginam, Charles Nwaiwu	Nigeria
4	<u>THE HYDRAULICS OF NATURE-LIKE FISHWAYS</u>	Xi Mao, Sheng Huang, Yuchen Xu, Zhong Cheng, Jiehao Zhang	China
4	<u>EXPERIMENTAL VERIFICATION OF PUNCHING SHEAR RESISTANCE OF FLAT SLAB FRAGMENTS</u>	Simona Šarvaicová, Viktor Borzovič	Slovakia
4	<u>FIELD MEASUREMENT AND NUMERICAL STUDY OF EXTERNAL WIND PRESSURE OF RIBBED COOLING TOWER</u>	Zi-hou Yuan, Ming-xiang, Yi-chen	China
4	<u>REDUCING THE LATERAL DISPLACEMENT OF LEAD RUBBER BEARING ISOLATORS UNDER THE NEAR FIELD EARTHQUAKES BY CROSSWISE DISSIPATERS CONNECTED TO RIGID SUPPORT STRUCTURE</u>	Kourosh Talebi Jouneghani, Mohammad Sadegh Rohanimanesh, Mahmood Hosseini, Morteza Raissi	Iran, Turkey
4	<u>EXPERIMENTAL STUDY ON MECHANICAL PROPERTIES OF POLYURETHANE POWDER COMPOSITES</u>	Kexin Zhang	China
4	<u>A DEMOUNTABLE COLUMN - GIRDER JOINT</u>	Aleš Polák	Czech Republic
4	<u>FLEXURAL SIMULATION ANALYSIS OF RC T-GIRDERS STRENGTHED WITH POLYURETHANE CEMENT-PRESTRESSED STEEL WIRE ROPES</u>	Kexin Zhang	China
4	<u>THE ROLE OF TECHNICAL AND NATURAL SCIENCES IN STONE MONUMENTS CARE</u>	Eva Matoušková, Kateřina Kovářová	Czech Republic
4	<u>INVESTIGATING THE BEHAVIOR OF BOUNDARY ELEMENTS IN STEEL SHEAR WALLS WITH DIFFERENT CONNECTIONS</u>	Bi Ying	China
4	<u>AVAILABILITY AND COMPARISON OF DATA FROM SENTINEL-1 SATELLITES IN AREAS OF INTEREST IN THE CZECH REPUBLIC AND SUDAN</u>	Dominik Brétt	Czech Republic
4	<u>REMOTE SENSING DATA IN MUNICIPAL GOVERNMENT</u>	Jaroslav Nýdrle	Czech Republic

CONCLUSION

In the past year, the journal continued to strengthen its international character and confirm its role as a global platform for disseminating civil engineering research. The diversity of published articles reflects both the wide geographical reach of the journal and the growing interest of research teams worldwide in contributing to its scientific community. A total of 73 articles were published, authored by researchers from 17 countries across five continents. The largest share of contributions came from China (41 articles), highlighting the country's strong and dynamic civil engineering research output. The Czech Republic, the journal's home country, contributed 12 articles, demonstrating ongoing engagement of domestic institutions in advancing the field. Additional contributions were received from a range of countries, including Iran (4), Vietnam (2), Turkey (2), USA (2), Indonesia (2), and Nigeria (2). Single-article contributions also came from Argentina, Italy, Algeria, Portugal, India, Malaysia, Hungary, Tunisia, Kuwait, and Slovakia, further underscoring the journal's global footprint. This wide international representation enriches the journal's content and brings a broad spectrum of engineering approaches, methodologies, and regional perspectives. The editorial team remains committed to supporting this diversity, maintaining rigorous academic standards, and continuously enhancing the journal's visibility and impact within the global civil engineering research community.

ACKNOWLEDGEMENT

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