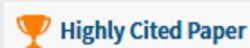


ISI Papers in highlight

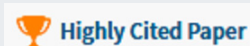
Web of Science - Clarivate Analytics Highly Cited Papers

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Precup, R.E., Hellendoorn, H. A survey on industrial applications of fuzzy control, *COMPUTERS IN INDUSTRY*, Volume: 62, Issue: 3, Pages: 213-226, ISSN: 0166-3615, eISSN: 1872-6194, 2011;
Times Cited in Web of Science Core Collection: 244



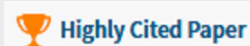
Boldea, I., Tutelea, L.N., Parsa, L., Dorrell, D. Automotive Electric Propulsion Systems With Reduced or No Permanent Magnets: An Overview, *IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS*, Volume: 61, Issue: 10, Pages: 5696-5711, ISSN: 0278-0046, eISSN: 1557-9948, 2014;
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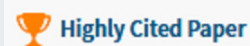
Marinca, V., Herisanu, N. Application of Optimal Homotopy Asymptotic Method for solving nonlinear equations arising in heat transfer, *INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER*, Volume: 35, Issue: 6, Pages: 710-715, ISSN: 0735-1933, 2008;
Times Cited in Web of Science Core Collection: 198



Marinca, V., Herisanu, N., Bota, C., Marinca, B. An optimal homotopy asymptotic method applied to the steady flow of a fourth-grade fluid past a porous plate, *APPLIED MATHEMATICS LETTERS*, Volume: 22, Issue: 2, Pages: 245-251, ISSN: 0893-9659, 2009;
Times Cited in Web of Science Core Collection: 160



Sarbu, I., Sebarchievici, C. General review of ground-source heat pump systems for heating and cooling of buildings, *ENERGY AND BUILDINGS*, Volume: 70, Pages: 441-454, ISSN: 0378-7788, eISSN: 1872-6178, 2014;
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Cadariu, L., Radu, V. Fixed point methods for the generalized stability of functional equations in a single variable, *FIXED POINT THEORY AND APPLICATIONS*, Article Number: 749392, ISSN: 1687-1820, 2008;
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Highly Cited Papers received enough citations as of January/December 2018 to place them in the top 1% of their academic fields based on a highly cited threshold for the field and publication year.

*The data was obtained from Web of Science - Clarivate Analytics in 19 March 2019

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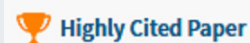
Gheju, M., Balcu, I. Removal of chromium from Cr(VI) polluted wastewaters by reduction with scrap iron and subsequent precipitation of resulted cations, JOURNAL OF HAZARDOUS MATERIALS, Volume: 196, Pages: 131-138, PubMed ID: 21955659, ISSN: 0304-3894, 2011;
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Gheju, M., Balcu, I., Mosoarca, G. Removal of Cr(VI) from aqueous solutions by adsorption on MnO₂, JOURNAL OF HAZARDOUS MATERIALS, Volume: 310, Pages: 270-277, PubMed ID: 26947189, ISSN: 0304-3894, eISSN: 1873-3336, 2016;
Times Cited in Web of Science Core Collection: 47



Precup, R.E., David, R.C., Petriu, E.M. Grey Wolf Optimizer Algorithm-Based Tuning of Fuzzy Control Systems With Reduced Parametric Sensitivity, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, Volume: 64, Issue: 1, Pages: 527-534, ISSN: 0278-0046, eISSN: 1557-9948, 2017;
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Precup, R.E., Radac, M.B., Roman, R.C., Petriu, E.M. Model-free sliding mode control of nonlinear systems: Algorithms and experiments, INFORMATION SCIENCES, Volume: 381, Pages: 176-192, ISSN: 0020-0255, eISSN: 1872-6291, 2017;
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Duma, V.F., Schitea, A. LASER SCANNERS WITH ROTATIONAL RISLEY PRISMS: EXACT SCAN PATTERNS, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, Volume: 19, Issue: 1, Pages: 53-60, ISSN: 1454-9069, 2018;
Times Cited in Web of Science Core Collection: 6

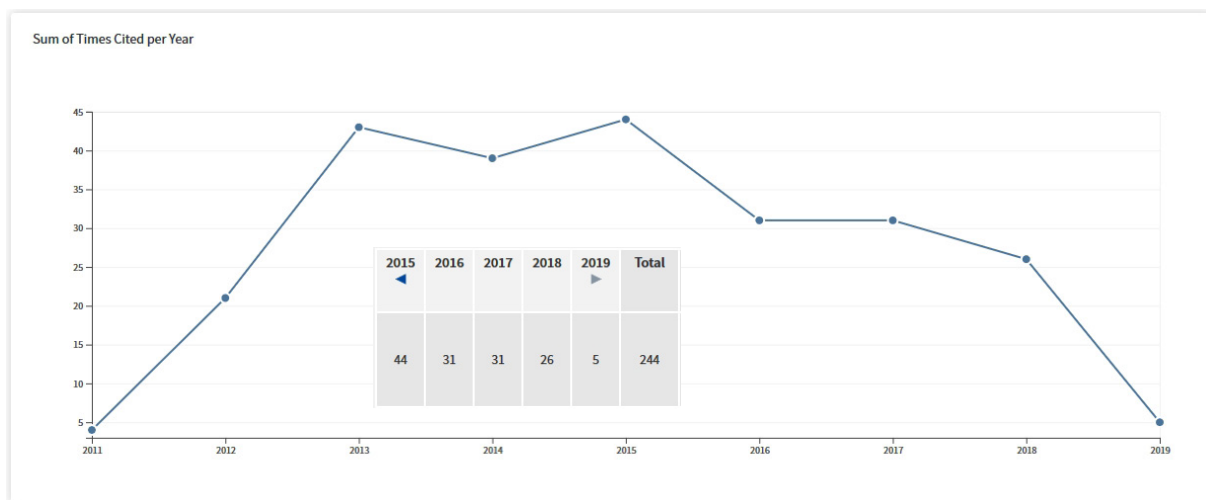


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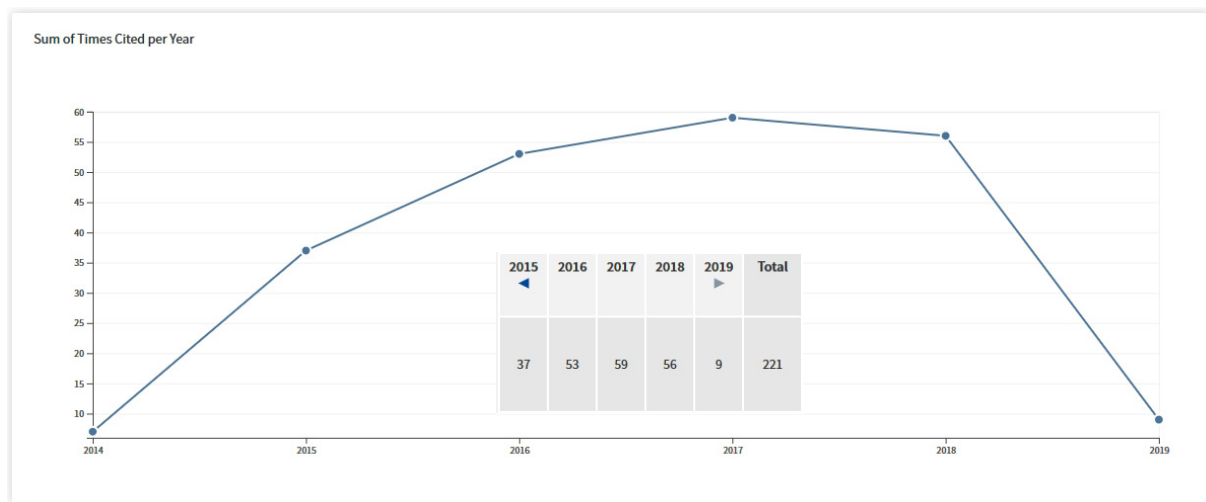
Precup, R.E., Hellendoorn, H. A survey on industrial applications of fuzzy control, *COMPUTERS IN INDUSTRY*, Volume: 62, Issue: 3, Pages: 213-226, ISSN: 0166-3615, eISSN: 1872-6194, 2011;
Times Cited in Web of Science Core Collection: 244

Abstract: Fuzzy control has long been applied to industry with several important theoretical results and successful results. Originally introduced as model-free control design approach, model-based fuzzy control has gained widespread significance in the past decade.

This paper presents a survey on recent developments of analysis and design of fuzzy control systems focused on industrial applications reported after 2000.

Web of Science - Clarivate Analytics Highly Cited Paper

As of March/December 2018, this highly cited paper received enough citations to place it in the top 1% of the academic field of **Engineering** based on a highly cited threshold for the field and publication year.



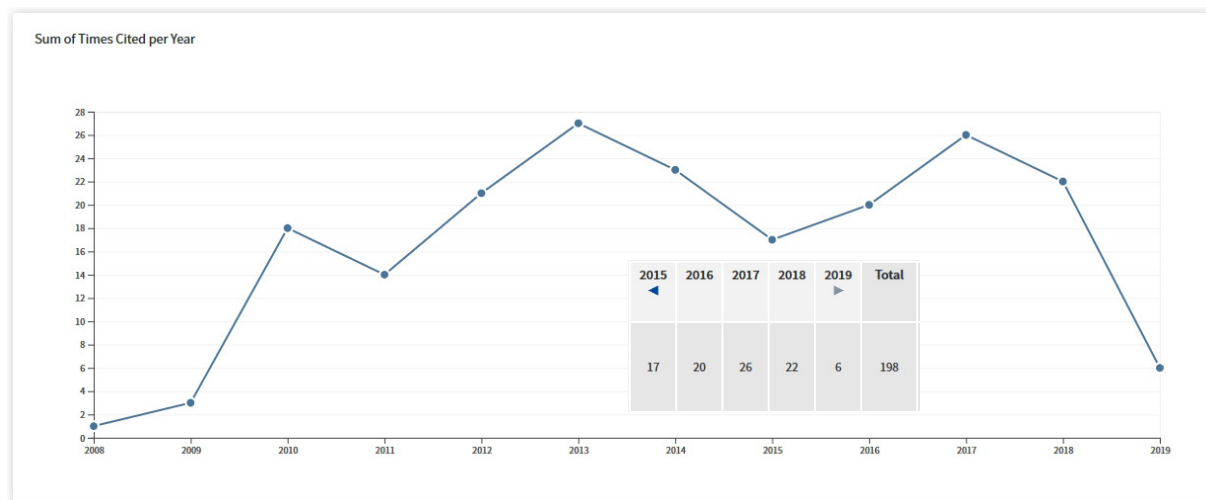
Boldea, I., Tutelea, L.N., Parsa, L., Dorrell, D. Automotive Electric Propulsion Systems With Reduced or No Permanent Magnets: An Overview, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, Volume: 61, Issue: 10, Pages: 5696-5711, ISSN: 0278-0046, eISSN: 1557-9948, 2014; Times Cited in Web of Science Core Collection: 221

Abstract: Hybrid and electric vehicle technology has seen rapid development in recent years. The motor and the generator are at the heart of the vehicle drive and energy system and often utilize expensive rare-earth permanent magnet (PM) material. This paper reviews and addresses the research work that has been carried out to reduce the amount of rare-earth material that is used while maintaining the high efficiency and performance that rare-earth PM machines offer. These new machines can use either less rare-earth PM material,

weaker ferrite magnets, or no magnets; and they need to meet the high performance that the more usual interior PM synchronous motor with sintered neodymium-iron-boron magnets provides. These machines can take the form of PM-assisted synchronous reluctance machines, induction machines, switched reluctance machines, wound rotor synchronous machines (claw pole or biaxially excited), double-saliency machines with ac or dc stator current control, or brushless dc multiple-phase reluctance machines.

Web of Science - Clarivate Analytics Highly Cited Paper

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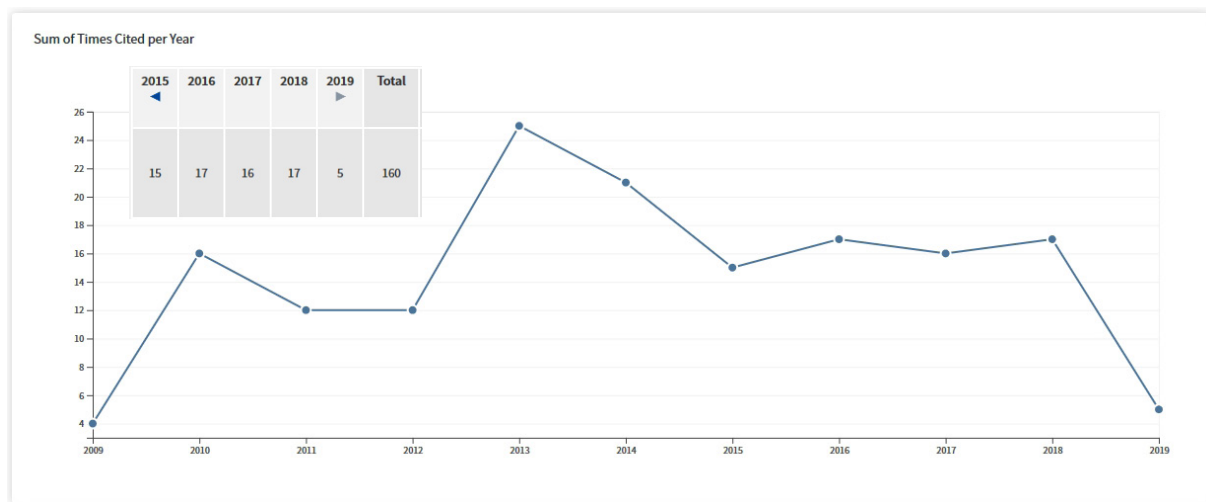
Marinca, V., Herisanu, N. Application of Optimal Homotopy Asymptotic Method for solving nonlinear equations arising in heat transfer, INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, Volume: 35, Issue: 6, Pages: 710-715, ISSN: 0735-1933, 2008;
Times Cited in Web of Science Core Collection: 198

Abstract: We consider one of the newest analytical methods, the Optimal Homotopy Asymptotic Method (OHAM), to solve nonlinear equations arising in heat transfer. Two specific applications are considered: cooling of a lumped system with variable specific heat and the temperature distribution equation in a thick rectangular fin radiation to free space. Results obtained by OHAM, which does not

need small parameters are compared with numerical results and a very good agreement was found. This method provides us with a convenient way to control the convergence of approximation series and adjust convergence regions when necessary. The results reveal that the proposed method is explicit, effective and easy to use.

Web of Science - Clarivate Analytics Highly Cited Paper

As of January/December 2018, this highly cited paper received enough citations to place it in the top 1% of the academic field of **Mathematics** based on a highly cited threshold for the field and publication year.



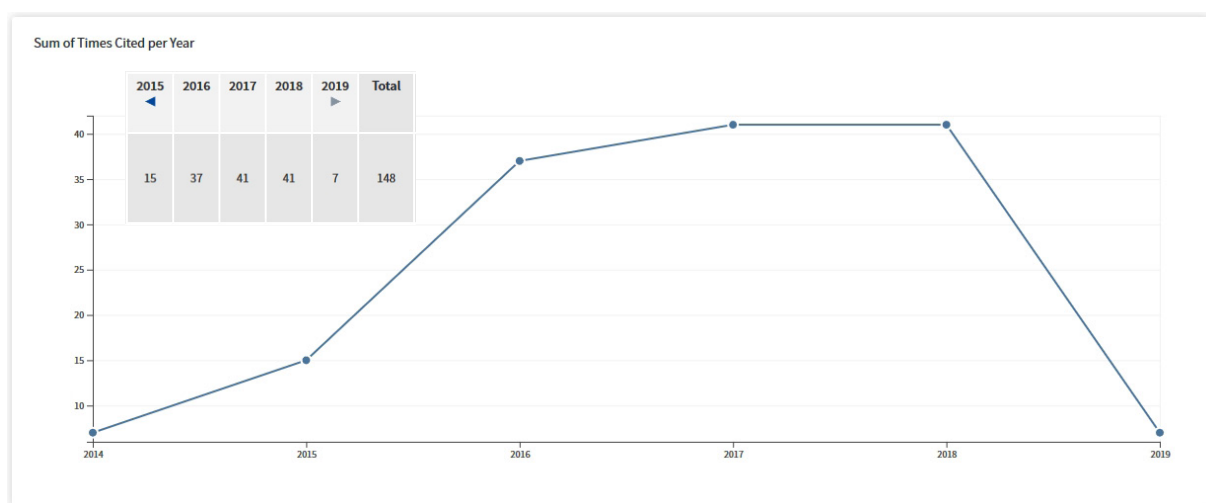
Marinca, V., Herisanu, N., Bota, C., Marinca, B. An optimal homotopy asymptotic method applied to the steady flow of a fourth-grade fluid past a porous plate, *APPLIED MATHEMATICS LETTERS*, Volume: 22, Issue: 2, Pages: 245-251, ISSN: 0893-9659, 2009;
Times Cited in Web of Science Core Collection: 160

Abstract: A new analytic approximate technique for addressing nonlinear problems, namely the Optimal Homotopy Asymptotic Method (OHAM), is proposed and used in an application to the steady flow of a fourth-grade fluid. This approach does not depend upon any small/large parameters. This method provides us with a convenient

way to control the convergence of approximation series and adjust convergence regions when necessary. The series solution is developed and the recurrence relations are given explicitly. The results reveal that the proposed method is effective and easy to use.

Web of Science - Clarivate Analytics Highly Cited Paper

As of January/December 2018, this highly cited paper received enough citations to place it in the top 1% of the academic field of **Engineering** based on a highly cited threshold for the field and publication year.



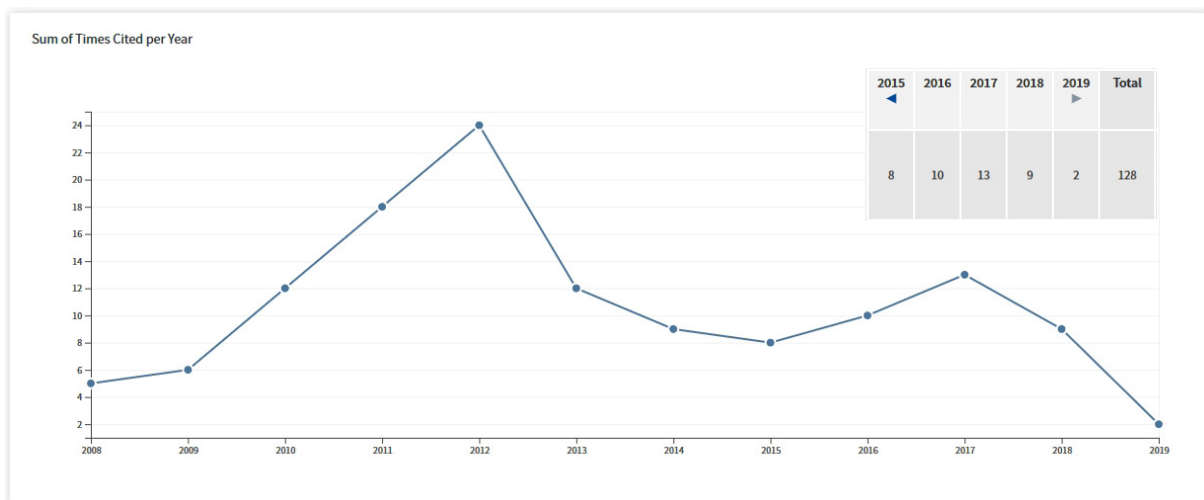
Sarbu, I., Sebarchievici, C. General review of ground-source heat pump systems for heating and cooling of buildings, *ENERGY AND BUILDINGS*, Volume: 70, Pages: 441-454, ISSN: 0378-7788, eISSN: 1872-6178, 2014;
Times Cited in Web of Science Core Collection: 148

Abstract: A large number of ground-source heat pumps (GSHP) systems have been used in residential and commercial buildings throughout the world due to the attractive advantages of high energy and environmental performances. The GSHPs are proven renewable energy technology for space heating and cooling. This paper provides a detailed literature review of the GSHP systems, and their recent advances. The operation principle and energy efficiency of a heat pump are defined first. Then, a general introduction on the GSHPs and its development, and a detailed description of the surface water (SWHP), ground-water (GWHP), and ground-couplet (GCHP) heat pumps are performed. The most typical simulation and ground thermal response

test models for the vertical ground heat exchangers currently available are summarized including the heat transfer processes outside and inside the boreholes. Also, some information about a new GWHP using a heat exchanger with special construction, and the possibility to obtain the better energy efficiency with combined heating and cooling by GCHP are presented. The various hybrid GCHP systems for cooling or heating-dominated buildings are well described. Finally, the energy, economic and environmental performance of a closed-loop GCHP system is also briefly reviewed. It is found that the GSHP technology can be used both in cold and hot weather areas and the energy saving potential is significant.

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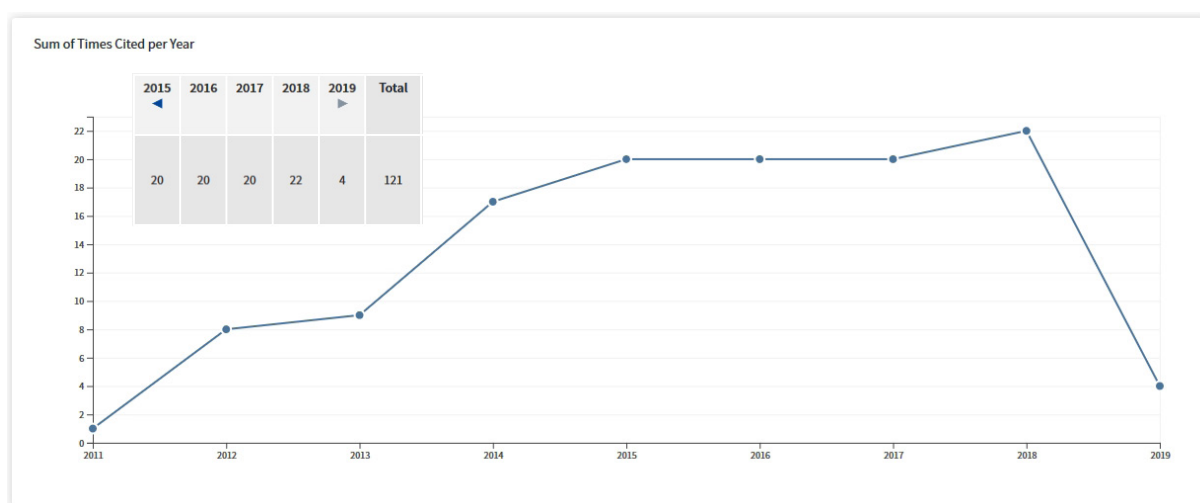
Cadariu, L., Radu, V. Fixed point methods for the generalized stability of functional equations in a single variable, *FIXED POINT THEORY AND APPLICATIONS*, Article Number: 749392, ISSN: 1687-1820, 2008;
Times Cited in Web of Science Core Collection: 128

Abstract: We discuss on the generalized Ulam-Hyers stability for functional equations in a single variable, including the nonlinear functional equations, the linear functional equations, and a generalization of functional equation for the square root spiral. The

stability results have been obtained by a fixed point method. This method introduces a metrical context and shows that the stability is related to some fixed point of a suitable operator.

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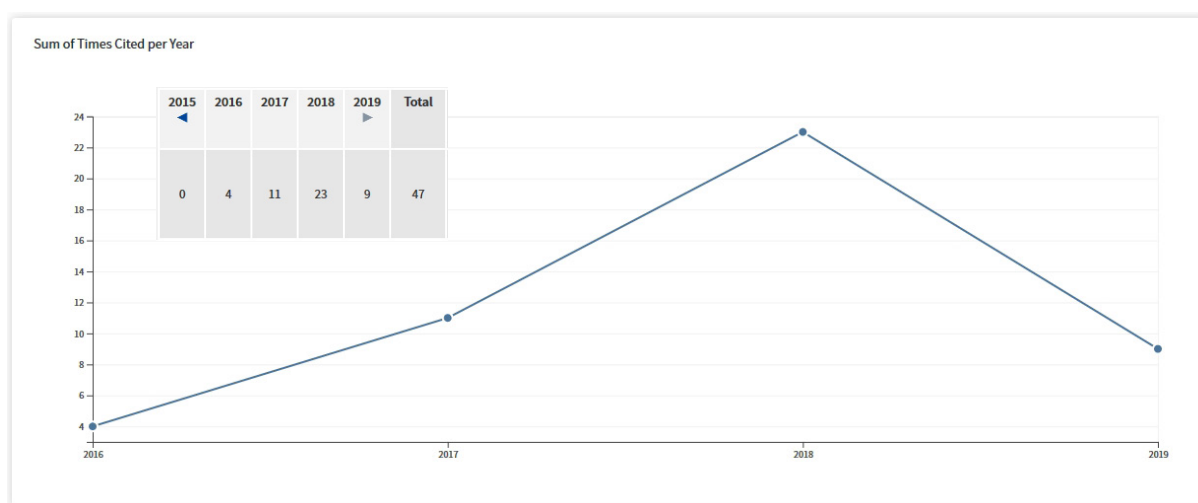
Gheju, M., Balcu, I. Removal of chromium from Cr(VI) polluted wastewaters by reduction with scrap iron and subsequent precipitation of resulted cations, JOURNAL OF HAZARDOUS MATERIALS, Volume: 196, Pages: 131-138, PubMed ID: 21955659, ISSN: 0304-3894, 2011;
Times Cited in Web of Science Core Collection: 121

Abstract: This work presents investigations on the total removal of chromium from Cr(VI) aqueous solutions by reduction with scrap iron and subsequent precipitation of the resulted cations with NaOH. The process was detrimentally affected by a compactly passivation film occurred at scrap iron surface, mainly composed of Cr(III) and Fe(III). Maximum removal efficiency of the Cr(total) and Fe(total) achieved in the clarifier under circumneutral and alkaline (pH 9.1) conditions was 98.5% and 100%, respectively. The optimum precipitation pH range which resulted from this study is 7.6-8.0. Fe(total) and Cr(total) were

almost entirely removed in the clarifier as Fe(III) and Cr(III) species: however, after Cr(VI) breakthrough in column effluent, chromium was partially removed in the clarifier also as Cr(VI), by coprecipitation with cationic species. As long the column effluent was free of Cr(VI), the average Cr(total) removal efficiency of the packed column and clarifier was 10.8% and 78.8%, respectively. Our results clearly indicated that Cr(VI) contaminated wastewater can be successfully treated by combining reduction with scrap iron and chemical precipitation with NaOH.

Web of Science - Clarivate Analytics Highly Cited Paper

As of March/June and November/December 2018, this highly cited paper received enough citations to place it in the top 1% of the academic field of **Engineering** based on a highly cited threshold for the field and publication year.



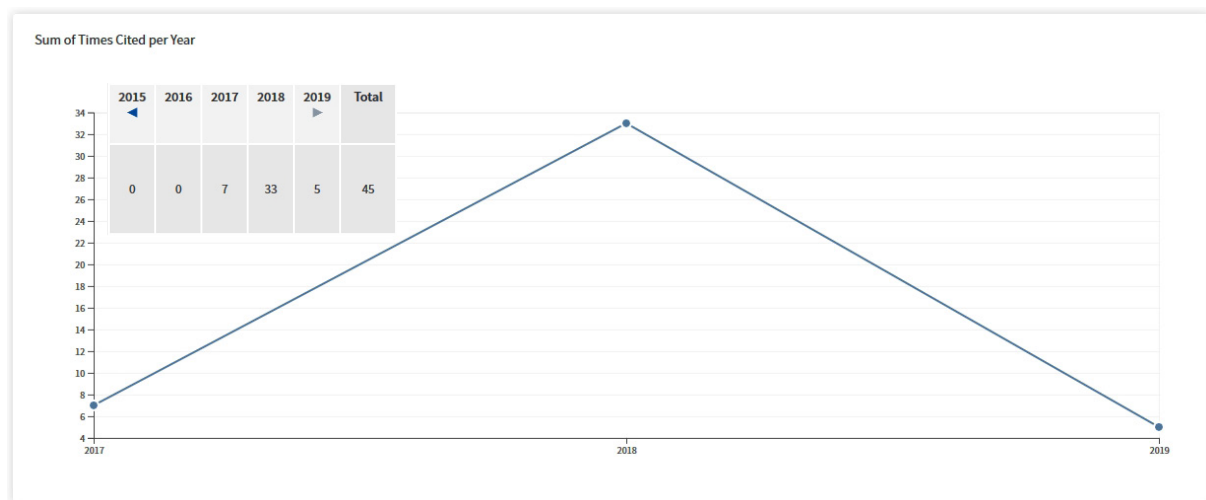
Gheju, M., Balcu, I., Mosoarca, G. Removal of Cr(VI) from aqueous solutions by adsorption on MnO₂, JOURNAL OF HAZARDOUS MATERIALS, Volume: 310, Pages: 270-277, PubMed ID: 26947189, ISSN: 0304-3894, eISSN: 1873-3336, 2016;
Times Cited in Web of Science Core Collection: 47

Abstract: Adsorption of Cr(VI) on MnO₂ was investigated with respect to effect of pH, temperature, ionic strength, initial Cr(VI) concentration, co-presence of different anions (HCO₃⁻, SO₄²⁻, H₂PO₄⁻, NO₃⁻ and Cl⁻) and of low molecular weight natural organic materials (LMWNOM) (acetate, oxalate and citrate). The process was rapid during the first 3-5 min, reaching equilibrium after one hour. Adsorption decreased with increasing pH, temperature and Cr(VI) initial concentration, and increased with increasing ionic strength. Co-presence of phosphate, sulfate, bicarbonate, citrate and oxalate hindered Cr(VI) adsorption, whereas nitrate, chloride and acetate did not exert any notable influence. The overall order of Cr(VI) adsorption suppression due to

co-presence of anions and LMWNOM was H₂PO₄⁻ > HCO₃⁻ > SO₄²⁻, and oxalate > citrate, respectively. Highest experimental equilibrium sorption capacity (0.83 mg g⁻¹) was obtained at 20 degrees C and pH 5.9, while lowest (0.18 mg g⁻¹) was noticed in the co-presence of H₂PO₄⁻, at 20 degrees C and pH 6.9. Adsorption kinetics was successfully fitted by pseudo-second-order model. Mechanisms for both specific and non-specific adsorption are likely to be involved, while rate-controlling step involved both intra-particle and film diffusion processes. Cr(VI) was strongly bound to MnO₂, which makes risks of its subsequent liberation into the environment to be low.

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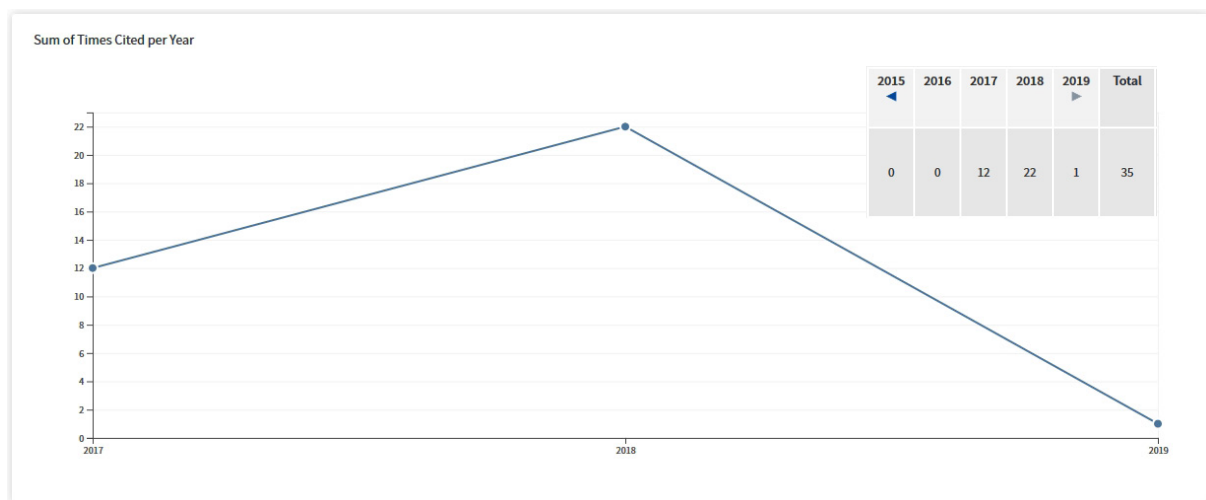
Precup, R.E., David, R.C., Petriu, E.M. Grey Wolf Optimizer Algorithm-Based Tuning of Fuzzy Control Systems With Reduced Parametric Sensitivity, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, Volume: 64, Issue: 1, Pages: 527-534, ISSN: 0278-0046, eISSN: 1557-9948, 2017;
Times Cited in Web of Science Core Collection: 45

Abstract: This paper proposes an innovative tuning approach for fuzzy control systems (CSs) with a reduced parametric sensitivity using the Grey Wolf Optimizer (GWO) algorithm. The CSs consist of servo system processes controlled by Takagi-Sugeno-Kang proportional-integral fuzzy controllers (TSK PI-FCs). The process models have second-order dynamics with an integral component, variable parameters, a saturation, and dead-zone static nonlinearity. The sensitivity analysis employs output sensitivity functions of the sensitivity models defined

with respect to the parametric variations of the processes. The GWO algorithm is used in solving the optimization problems, where the objective functions include the output sensitivity functions. GWO's motivation is based on its low-computational cost. The tuning approach is validated in an experimental case study of a position control for a laboratory nonlinear servo system, and TSK PI-FCs with a reduced process small time constant sensitivity are offered.

Web of Science - Clarivate Analytics Highly Cited Paper

As of March/June and September/October 2018, this highly cited paper received enough citations to place it in the top 1% of the academic field of **Computer Science** based on a highly cited threshold for the field and publication year.



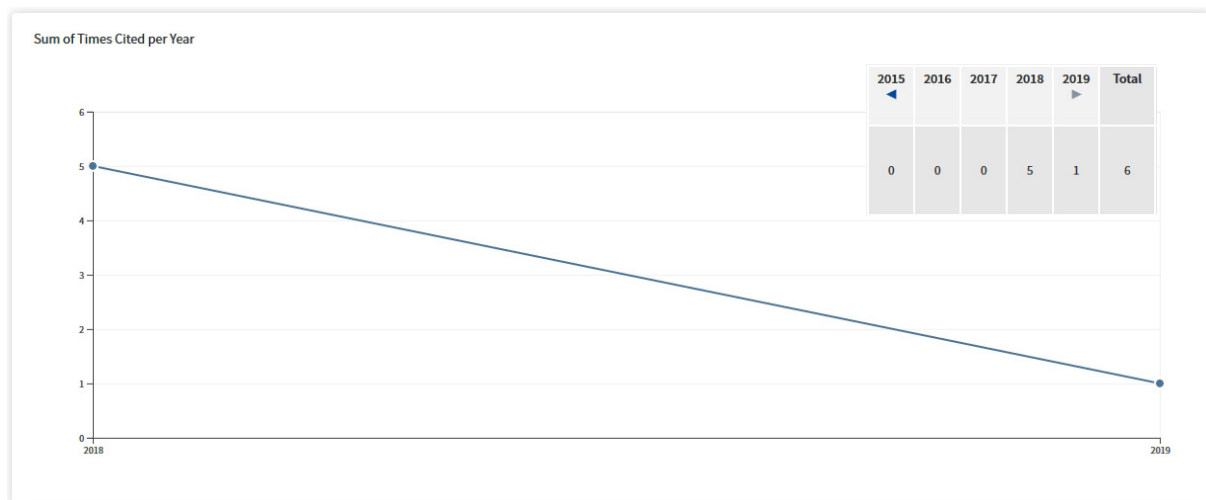
Precup, R.E., Radac, M.B., Roman, R.C., Petriu, E.M. Model-free sliding mode control of nonlinear systems: Algorithms and experiments, *INFORMATION SCIENCES*, Volume: 381, Pages: 176-192, ISSN: 0020-0255, eISSN: 1872-6291, 2017;
Times Cited in Web of Science Core Collection: 35

Abstract: This paper proposes two model-free sliding mode control system (MFSMCS) structures. The new structures are compared with a model-free intelligent proportional-integral (iPI) control system structure. Two simple design approaches for the MFSMCS structures are suggested. The control system structures and the design approaches are validated by a set of real-time experimental results on a nonlinear laboratory twin rotor aerodynamic system

(TRAS). The MFSMCS structures are considered in the framework of a Multi Input-Multi Output TRAS control system, where the azimuth and pitch positions are controlled using separate Single Input-Single Output control system structures for each control channel (azimuth and pitch). The experimental validation is carried out by two scenarios that illustrate and allow the assessment of the MFSMCS structures performance and the comparison versus a model-free iPI control system structure as well.

Web of Science - Clarivate Analytics Highly Cited Paper

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Duma, V.F., Schitea, A. LASER SCANNERS WITH ROTATIONAL RISLEY PRISMS: EXACT SCAN PATTERNS, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, Volume: 19, Issue: 1, Pages: 53-60, ISSN: 1454-9069, 2018; Times Cited in Web of Science Core Collection: 6

Abstract: We approach the exact scan patterns produced by scanners with rotational Risley prisms. Previous methods have considered such studies mostly approximately, in the paraxial domain or using the third-order theory. Exact, but complicated analytical solutions have also been developed. In contrast, we propose a novel, easy-to-use, graphical method, in order to complete the exact modeling of the scanning process: with a mechanical design program, CATIA V5R20 (Dassault Systemes, Paris, France). By ray-tracing using the prisms

equations, the scan patterns are determined and studied with regard to the characteristic parameters of the device: prism angles and their rotational speeds, as well as the scanner geometry. Marshall's characteristic parameters are utilized: the ratios of the prism angles and of the rotational speeds. An experimental validation of the modeling procedure is completed. The exact modeling method proposed allows for choosing the most appropriate parameters of the device in order to obtain a certain scan pattern for a specific application.

No.	Article	2017 Impact Factor / Quartile in Category
1.	Abdullah, A.D., Castro-Gama, M.E., Popescu, I., van der Zaag, P., Karim, U., Al Suhail, Q. Optimization of water allocation in the Shatt al-Arab River under different salinity regimes and tide impact, HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, Volume: 63, Issue: 4, Pages: 646-656, ISSN: 0262-6667, eISSN: 2150-3435, 2018;	2.061 / Q2
2.	Aliha, M.R.M., Linul, E., Bahmani, A., Marsavina, L. Experimental and theoretical fracture toughness investigation of PUR foams under mixed mode I plus III loading, POLYMER TESTING, Volume: 67, Pages: 75-83, ISSN: 0142-9418, eISSN: 1873-2348, 2018;	2.247 / Q2
3.	Ancuti, C.O., Ancuti, C., De Vleeschouwer, C., Bekaert, P. Color Balance and Fusion for Underwater Image Enhancement, IEEE TRANSACTIONS ON IMAGE PROCESSING, Volume: 27, Issue: 1, Pages: 379-393, PubMed ID: 28981416, ISSN: 1057-7149, eISSN: 1941-0042, 2018;	5.072 / Q1
4.	Ancuti, C., Ancuti, C.O., de Vleeschouwer, C., Sbert, M. Decolorization by Fusion, IEEE ACCESS, Volume: 6, Pages: 64071-64084, ISSN: 2169-3536, 2018;	3.557 / Q1
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6.	Belega, D., Petri, D. Effect of windowing and noise on the amplitude and phase estimators returned by the Taylor-based Weighted Least Squares, DIGITAL SIGNAL PROCESSING, Volume: 83, Pages: 202-213, ISSN: 1051-2004, eISSN: 1095-4333, 2018;	2.241 / Q2
7.	Belega, D., Petri, D., Dallet, D. Accurate amplitude and phase estimation of noisy sine-waves via two-point interpolated DTFT algorithms, MEASUREMENT, Volume: 127, Pages: 89-97, ISSN: 0263-2241, eISSN: 1873-412X, 2018;	2.218 / Q2
8.	Belega, D., Petri, D., Dallet, D. Amplitude and Phase Estimation of Real-Valued Sine Wave via Frequency-Domain Linear Least-Squares Algorithms, IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, Volume: 67, Issue: 5, Special Issue: SI, Pages: 1065-1077, ISSN: 0018-9456, eISSN: 1557-9662, 2018;	2.794 / Q1
9.	Belega, D., Petri, D., Dallet, D. INFLUENCE OF THE SPECTRAL IMAGE COMPONENT ON THE AMPLITUDE AND PHASE ESTIMATORS PROVIDED BY THE INTERPOLATED DFT METHOD, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, Volume: 19, Issue: 2, Pages: 377-384, ISSN: 1454-9069, 2018;	1.752 / Q2
10.	Belega, D., Petri, D., Dallet, D. Accurate frequency estimation of a noisy sine-wave by means of an interpolated discrete-time Fourier transform algorithm, MEASUREMENT, Volume: 116, Pages: 685-691, ISSN: 0263-2241, eISSN: 1873-412X, 2018;	2.218 / Q2
11.	Berei, E., Stefanescu, O., Muntean, C., Vlase, T., Taranu, B.O., Dabici, A., Stefanescu, M. A novel route for the preparation of CoCr2O4/SiO2 nanocomposite starting from Co(II)-Cr(III) carboxylate complex combinations, JOURNAL OF MATERIALS SCIENCE, Volume: 53, Issue: 6, Pages: 4159-4172, ISSN: 0022-2461, eISSN: 1573-4803, 2018;	2.993 / Q2
12.	Berei, E., Muntean, C., Stefanescu, O., Niculescu, M., Stefanescu, M. Preparation of CuCr2O4 nanopowders using two different chromium sources, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, Volume: 131, Issue: 1, Pages: 137-144, ISSN: 1388-6150, eISSN: 1588-2926, 2018;	2.209 / Q2
13.	Binzar, T., Lazureanu, C. Wold-Type Decompositions for a Commutative Pair of Noncommutative Semigroups of Isometries, BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY, Volume: 41, Issue: 2, Pages: 1139-1150, ISSN: 0126-6705, eISSN: 2180-4206, 2018;	0.84 / Q2

No.	Article	2017 Impact Factor / Quartile in Category
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*The data was obtained from Web of Science - Clarivate Analytics in 13 May 2019

