



## Costica BEJINARIU

<https://www.webofscience.com/wos/author/rid/M-4148-2013>

Web of Science ResearcherID: [M-4148-2013](#)

### Current affiliation:

- "Gheorghe Asachi" Technical University of Iasi, Romania

### Publication Metrics

For manuscripts published from date range January 1990 - January 2026

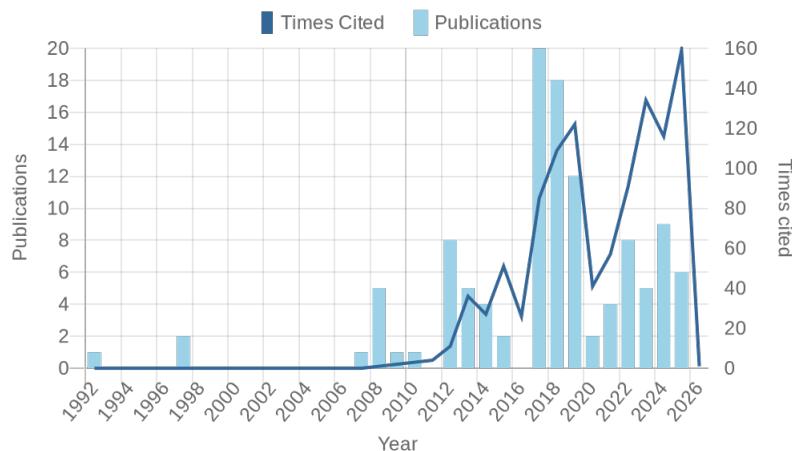
21	1076
H-index	Sum of Times Cited
167	114
Total Publications	Web of Science Core Collection Publications

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For all time

21	1076
H-index	Sum of Times Cited
178	114
Total Publications	Web of Science Core Collection Publications

### Publication Impact Over Time



## Publishing Summary

For manuscripts published from date range January 1990 - January 2026

- (22) IOP Conference Series: Material...
- (11) Applied Mechanics and Materials
- (10) Industrial Applications of Green...
- (7) Quality - Access to Success
- (6) Archives of Metallurgy and Mate...
- (4) Advanced Materials Research
- (4) Applied Sciences
- (4) Key Engineering Materials
- (3) Annals of the Academy of Roma...
- (2) UPB Scientific Bulletin, Series A: ...
- (2) AIP Conference Proceedings
- (2) Environmental Engineering and ...
- (2) Occupational Health and Safety
- (1) Risk Minimization By Experiment...
- (1) International Journal of Nonlinea...
- (1) Euromat 97 - Proceedings of the ...
- (1) Surface Engineering and Applied...
- (1) Japanese Journal of Applied Phys...
- (1) Nanomaterials
- (1) Welding - Modern Topics
- (1) Journal of Applied Mathematics
- (18) Revista de Chimie
- (10) MATEC Web of Conferences
- (8) Materials
- (6) Sustainability
- (5) Coatings
- (4) Materiale Plastice
- (4) Springer Proceedings in Materials
- (3) Journal of Physics: Conference S...
- (3) Journal of Computational and Th...
- (2) Journal of Optoelectronics and A...
- (2) MODTECH 2011: NEW FACE OF T...
- (2) Materials Today: Proceedings
- (2) Thermec: International Conferen...
- (1) Surface and Coatings Technology
- (1) EUROMAT 97 - PROCEEDINGS OF...
- (1) EUROINVENT ICIR
- (1) Microscopy Research and Techni...
- (1) Powder Technology
- (1) TOWARDS AN INTELLIGENT LEAR...
- (1) Acta Universitatis Cibiniensis. Te...
- (1) Energy

(1) Metals

(1) Proceedings - International Octo...

(1) Surfaces and Interfaces

## Publications

For manuscripts published from date range January 1990 - January 2026  
(166)

Times Cited  
(All time)

Research trends in polymer matrix composites used for personal protective equipment: A bibliometric analysis

Authors (5): Cristian-Stefan Bunduc; Mihai-Adrian Bernevig ... Costică Bejinariu

Published: Dec 2025 in MATEC Web of Conferences

DOI: 10.1051/MATEC202541800012

Not indexed in  
the Web of  
Science

WORK SAFETY SELF-ASSESSMENT (PART III). APPLICATIONS: Work Means / Work Equipment; Work Environment by Workplaces / Workstations

Authors (6): Gheorghe Asachi Technical University of Iasi; Academy of Romanian Scientists; Costică Bejinariu ... Lucian Blaga University of Sibiu; Academy of Romanian Scientists

Published: Dec 2025 in Annals of the Academy of Romanian Scientists Series on Engineering Sciences

DOI: 10.56082/ANNALSARSCIENG.2025.2.149

Not indexed in  
the Web of  
Science

Micromorphology and properties of novel phosphate conversion coatings based on zinc-magnesium and zinc-zirconium deposited on Ti6Al4V

0

Authors (8): Burduhos-Nergis, Diana-Petronela; Munteanu, Cornelius ...

Burduhos-Nergis, Dumitru-Doru

Published: Nov 2025 in Surfaces and Interfaces

DOI: 10.1016/J.SURFIN.2025.107884

Accession Number: WOS:001607891900003

Tribological Characterization of Zn-Zr-Sr Conversion Coatings Deposited on Ti6Al4V

Not indexed in  
the Web of  
Science

Authors (5): Diana-Petronela Burduhos-Nergis; Anca Cazac ... Costică Bejinariu

Published: Oct 2025 in Springer Proceedings in Materials

DOI: 10.1007/978-3-032-08769-0\_4

Strontium Phosphate Used in Biomedical Applications: A Short Review

Authors (5): Anca Cazac; Diana-Petronela Burduhos-Nergis ... Costică Bejinariu

Not indexed in  
the Web of  
Science

Published: Oct 2025 in Springer Proceedings in Materials

DOI: 10.1007/978-3-032-08769-0\_1

Obtaining and Characterization of Phosphate Layers on the Surface of Steels for Reinforced Concrete

Authors (3): Petru LAZAR; Alin-Marian CAZAC; Costica BEJINARIU

Published: Oct 2025 in Industrial Applications of Green Solvents, Vol I

DOI: 10.21741/9781644903810

Not indexed in  
the Web of  
Science

Assessment of steam turbine performance degradation in long-term operation

1

Authors (9): Dosa, Ion; Petrilean, Dan Codrut ... Bejinariu, Costica

Published: Jul 2025 in Energy

DOI: 10.1016/J.ENERGY.2025.136491

Accession Number: WOS:001491390700004

Effect of Zinc, Magnesium, and Manganese Phosphate Coatings on the Corrosion Behaviour of Steel

0

Authors (11): Cazac, Alin-Marian; Cioca, Lucian-Ionel ... Milea (Parvu), Adriana

Published: Jul 2025 in Materials

DOI: 10.3390/MA18133126

Accession Number: WOS:001527264500001

Sustainability Management Through the Assessment of Instability and Insecurity Risk Scenarios in Romania's Energy Critical Infrastructures

2

Authors (11): Petrilean, Dan Codrut; Fita, Nicolae Daniel ... Bejinariu, Costica

Published: Mar 2025 in Sustainability

DOI: 10.3390/SU17072932

Accession Number: WOS:001465626500001

New Shock-Resistant Materials for Work Equipment used in Potentially Explosive Atmospheres

Not indexed in  
the Web of  
Science

Authors (1): Romeo-Gabriel CHELARIU

Published: Jan 2025 in Industrial Applications of Green Solvents, Vol I

DOI: 10.21741/9781644903872

Behavior of YSZ (High Y2O3 Content) Layer on Inconel to Electro-Chemical Corrosion

1

Authors (11): Adomnitei, Ionut; Cimpoesu, Ramona ... Cimpoesu, Nicanor

Published: Jan 2025 in Materials

DOI: 10.3390/MA18020400

Accession Number: WOS:001404250000001

Strontium phosphate conversion coatings: A short review

Not indexed in  
the Web of  
Science

Authors (5): Anca Cazac; Diana-Petronela Burduhos-Nergis ... Costica

Bejinariu

Published: 2025 in Proceedings - International October Conference on Mining and Metallurgy, Borsko Jezero, 22-25.10.

DOI: 10.5937/IOC25343C

Investigation of CuTi Alloy for Applications as Non-Sparking Material

3

Authors (12): Cazac, Alin-Marian; Chelariu, Romeo Gabriel ... Bejinariu, Costica

Published: Dec 2024 in Applied Sciences

DOI: 10.3390/APP142411574

Electrochemical Corrosion Resistance of Al<sub>2</sub>O<sub>3</sub>-YSZ Coatings on Steel Substrates

4

Authors (11): Cimpoesu, Ramona; Lutcanu, Marian ... Cimpoesu, Nicanor

Published: Dec 2024 in Applied Sciences

DOI: 10.3390/APP142310877

Accession Number: WOS:001376235400001

Impact of Personal Protective Equipment Use on Stress and Psychological Well-Being Among Firefighters: Systematic Review and Meta-Analysis

2

Authors (6): Darabont, Doru Costin; Cioca, Lucian-Ionel ... Chis, Timur Vasile

Published: Nov 2024 in Sustainability

DOI: 10.3390/SU16229666

Accession Number: WOS:001366118200001

Digitalization of the Occupational Health and Safety Management Processes

Authors (2): Doru C. Darabont; Costică Bejinariu

Published: Aug 2024 in TOWARDS AN INTELLIGENT LEARNING MANAGEMENT SYSTEM UNDER BLENDED LEARNING: TRENDS, PROFILES AND MODELING PERSPECTIVES

DOI: 10.1007/978-3-031-63337-9\_4

Not indexed in  
the Web of  
Science

Mechanical Properties and Wear Resistance of Biodegradable ZnMgY Alloy

3

Authors (11): Cimpoesu, Nicanor; Paleu, Viorel ... Zegan, Georgeta

Published: Jul 2024 in Metals

DOI: 10.3390/MET14070836

Accession Number: WOS:001277266300001

WORK SAFETY SELF-ASSESSMENT. APPLICATION, WORK LOAD

Authors (6): Gheorghe Asachi Technical University of Iasi; Costica Bejinariu ...

Lucian Blaga University of Sibiu; Academy of Romanian Scientists

Published: Jun 2024 in Annals of the Academy of Romanian Scientists Series on Engineering Sciences

DOI: 10.56082/ANNALSARSCIENG.2024.1.5

Not indexed in  
the Web of  
Science

MICROHARDNESS AND ELASTIC PROPERTIES EVALUATION OF WC-TiC

1

COATINGS OBTAINED BY ARC SPRAYING PROCESS

Authors (5): Haraga, R.; Chicet, D. ... Bejinariu, C.

Published: Jun 2024 in Archives of Metallurgy and Materials

DOI: 10.24425/AMM.2024.149812

Accession Number: WOS:001296371200059

Analysis of Chemical, Microstructural and Mechanical Properties of a CuAlBe Material Regarding Its Role as a Non-Sparking Material

1

Authors (12): Chelariu, Romeo Gabriel; Cimpoesu, Ramona ... Bejinariu, Costica

Published: May 2024 in Materials

DOI: 10.3390/MA17102220

Accession Number: WOS:001231779300001

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STRUCTURAL AND MECHANICAL PROPERTIES OF HOT ROLLED CuAlBe NON-SPARK ALLOY

1

Authors (9): Chelariu, G. R.; Cimpoesu, N. ... Bejinariu, C.

Published: Apr 2024 in Archives of Metallurgy and Materials

DOI: 10.24425/AMM.2024.147817

Accession Number: WOS:001220480900009

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Microstructural and Mechanical Properties Analysis of Phosphate Layers

2

Deposited on Steel Rebars for Civil Constructions

Authors (11): Lazar, Petru; Cimpoesu, Nicanor ... Bejinariu, Costica

Published: Feb 2024 in Coatings

DOI: 10.3390/COATINGS14020182

Accession Number: WOS:001172369600001

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INCDPM Method for Assessing the Risks of Occupational Injury and Illness at Work

Not indexed in the Web of Science

Authors (3): Costica Bejinariu; Doru Costin Darabont; Diana-Petronela Burduhos-Nergis

Published: Jan 2024 in Occupational Health and Safety

DOI: 10.2174/9789815165524124010010

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Health and Safety Performance Monitoring and Measuring

Not indexed in the Web of Science

Authors (2): Doru Costin Darabont; Costica Bejinariu

Published: Jan 2024 in Occupational Health and Safety

DOI: 10.2174/9789815165524124010009

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WORK SAFETY SELF-ASSESSMENT (PART II). APPLICATION, WORKER

Not indexed in the Web of Science

Authors (7): Gheorghe Asachi Technical University of Iasi, Iasi, Romania; Costică BEJINARIU ... Lucian Blaga University of Sibiu, Romania; Academy of Romanian Scientists, Romania

Published: 2024 in Annals of the Academy of Romanian Scientists Series on Engineering Sciences

DOI: 10.56082/ANNALSARSCIENG.2024.2.119

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Optical evaluation of the surfaces of the CuAlBe samples after the test of resistance to harsh wear stresses in an explosive atmosphere

1

Authors (5): Chelariu, R.G.; Cimpoesu, N. ... Bejinariu, C.

Published: 2024 in MATEC Web of Conferences

DOI: 10.1051/MATECCONF/202438900067

Accession Number: INSPEC:25340872

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CONSTITUTIVE MATERIAL LAWS IN THE MULTIFRACTAL THEORY OF MOTION (PART II)

0

Authors (11): Agop, Stefana; Paun, Maria-Alexandra ... Paun, Viorel-Puiu

Published: 2024 in UPB Scientific Bulletin, Series A: Applied Mathematics and Physics

Accession Number: WOS:001310032700001

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Phosphate Conversion Coatings for Biomaterials: A Bibliometric Analysis

Not indexed in the Web of Science

Authors (6): Diana-Petronela Burduhos-Nergis; Andrei Victor Sandu ... Costica Bejinariu

Published: Oct 2023 in Springer Proceedings in Materials

Tribological Characterization of Phosphate Coatings Deposited on Ti6Al4V  
Authors (7): Diana-Petronela Burduhos-Nergis; Andrei Victor Sandu ... Costica Bejinariu

Not indexed in  
the Web of  
Science

Published: Oct 2023 in Springer Proceedings in Materials  
DOI: 10.1007/978-3-031-45964-1\_2

Ca-Zn Phosphate Conversion Coatings Deposited on Ti6Al4V for Medical Applications

4

Authors (6): Burduhos-Nergis, Diana-Petronela; Cimpoesu, Nicanor ... Bejinariu, Costica

Published: Jun 2023 in Coatings

DOI: 10.3390/COATINGS13061029

Accession Number: WOS:001017029700001

Considerations Regarding the Application of the Occupational Injury and Illness Risk Assessment Method at Workplaces/Workstations, in Relation to the ISO 45001 Standard

1

Authors (5): Bejinariu, Costica; Darabont, Doru-Costin ... Chiriac-Moruzzi, Cristiana

Published: Feb 2023 in Sustainability

DOI: 10.3390/SU15032121

Accession Number: WOS:000930875800001

Structural and mechanical characterization of as-cast CuAlBe alloy

2

Authors (8): Gabriel Chelariu, R.; Benchea, M. ... Bejinariu, C.

Published: Jan 2023 in Materials Today: Proceedings

DOI: 10.1016/J.MATPR.2022.10.106

Accession Number: INSPEC:23147407

CONSTITUTIVE MATERIAL LAWS IN THE MULTIFRACTAL THEORY OF MOTION (PART I)

3

Authors (10): Rotundu, Ana; Agop, Stefana ... Paun, Viorel-Puiu

Published: 2023 in UPB Scientific Bulletin, Series A: Applied Mathematics and Physics

Accession Number: WOS:001133100100001

XRD and STA Characterization of Phosphate Layers Deposited on the Carbon Steel Surface

1

Authors (5): Burduhos-Nergis, D. -P.; Bejinariu, C. ... Vizureanu, P.

Published: 2023 in Archives of Metallurgy and Materials

DOI: 10.24425/AMM.2023.145459

Accession Number: WOS:001106664500006

PHOSPHATE CONVERSION COATING - A SHORT REVIEW

8

Authors (5): Burduhos-Nergis, D. -P.; Sandu, A. V. ... Bejinariu, C.

Published: 2023 in Archives of Metallurgy and Materials

DOI: 10.24425/AMM.2023.145471

Accession Number: WOS:001106664500019

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Microstructural, Corrosion Resistance, and Tribological Properties of Al<sub>2</sub>O<sub>3</sub>

10

Coatings Prepared by Atmospheric Plasma Spraying

Authors (10): Bejinariu, Costica; Paleu, Viorel ... Cimpoesu, Nicanor

Published: Dec 2022 in Materials

DOI: 10.3390/MA15249013

Accession Number: WOS:000906867300001

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Convective Heat Transfer in Magneto-Hydrodynamic Carreau Fluid with

7

Temperature Dependent Viscosity and Thermal Conductivity

Authors (8): Shah, Syed Amir Ghazi Ali; Hassan, Ali ... Bejinariu, Costica

Published: Nov 2022 in Nanomaterials

DOI: 10.3390/NANO12224084

Accession Number: WOS:000887621900001

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Mechanical Behavior of Crushed Waste Glass as Replacement of Aggregates

167

Authors (8): Celik, Ali Ihsan; Ozkilic, Yasin Onuralp ... Bejinariu, Costica

Published: Nov 2022 in Materials

DOI: 10.3390/MA15228093

Accession Number: WOS:000887381300001

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Analysis of the Physical-Mechanical Properties of the Zinc Phosphate Layer  
Deposited on a Nodular Cast Iron Substrate

2

Authors (5): Nejneru, Carmen; Burduhos-Nergis, Diana-Petronela ... Bejinariu, Costica

Published: Oct 2022 in Coatings

DOI: 10.3390/COATINGS12101384

Accession Number: WOS:000872654800001

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Corrosion Behaviour of Nodular Cast Iron Used for Rotor Manufacturing in  
Different Wastewaters

6

Authors (5): Nejneru, Carmen; Burduhos-Nergis, Diana-Petronela ... Bejinariu, Costica

Published: Jul 2022 in Coatings

DOI: 10.3390/COATINGS12070911

Accession Number: WOS:000831664600001

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XRD and TG-DTA Study of New Phosphate-Based Geopolymers with Coal Ash  
or Metakaolin as Aluminosilicate Source and Mine Tailings Addition

50

Authors (5): Burduhos Nergis, Dumitru Doru; Vizureanu, Petrica ... Bejinariu, Costica

Published: Jan 2022 in Materials

DOI: 10.3390/MA15010202

Accession Number: WOS:000751038100001

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COMPARATIVE ROLLING CONTACT BEHAVIOR OF TWO APS COATINGS WITH  
DIFFERENT MATRIX

1

Authors (4): Chicet, D.; Toma, S. ... Bejinariu, C.

Published: 2022 in Archives of Metallurgy and Materials

DOI: 10.24425/AMM.2022.139677

Accession Number: WOS:000849223500008

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## OBTAINING AND ANALYSIS OF A NEW ALUMINIUM BRONZE MATERIAL USING INDUCTION FURNACE

1

Authors (6): Chelariu, R. G.; Cimpoesu, N. ... Bejinariu, C.

Published: 2022 in Archives of Metallurgy and Materials

DOI: 10.24425/AMM.2022.141049

Accession Number: WOS:000890623500007

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## Galvanic Corrosion Behaviour of Different Types of Coatings Used in Safety Systems Manufacturing

8

Authors (3): Burduhos-Nergis, Diana-Petronela; Burduhos-Nergis, Dumitru-  
Doru; Bejinariu, Costica

Published: Dec 2021 in Coatings

DOI: 10.3390/COATINGS11121542

Accession Number: WOS:000736371900001

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## Phosphate Coatings: EIS and SEM Applied to Evaluate the Corrosion Behavior of Steel in Fire Extinguishing Solution

9

Authors (5): Burduhos-Nergis, Diana-Petronela; Vasilescu, Gabriel Dragos ...  
Bejinariu, Costica

Published: Sep 2021 in Applied Sciences

DOI: 10.3390/APP11177802

Accession Number: WOS:000694140300001

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## Phosphating Depositions for Equipment's Used in Explosive Atmospheres

Authors (6): Diana-Petronela Burduhos-Nergis; Adrian-Marius Jurca ... Costica  
Bejinariu

Not indexed in  
the Web of  
Science

Published: Aug 2021 in MATEC Web of Conferences

DOI: 10.1051/MATECCONF/202134310011

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## Analysis of non-sparking metallic materials for potentially explosive atmospheres

Not indexed in  
the Web of  
Science

Authors (6): Romeo Gabriel Chelariu; Costica Bejinariu ... Nicanor Cimpoesu

Published: Aug 2021 in MATEC Web of Conferences

DOI: 10.1051/MATECCONF/202134310014

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## The influence of economic factors in the management of health and safety specific to SMEs

Not indexed in  
the Web of  
Science

Authors (4): Gabriela Caldarescu; George Daniel Tanasievici ... Mihai-Adrian  
Bernevig

Published: Jul 2021 in MATEC Web of Conferences

DOI: 10.1051/MATECCONF/202134201019

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## Automotive Brake Disc Materials

Not indexed in  
the Web of  
Science

Authors (4): Costel FLOREA; Costica BEJINARIU ... Ramona CIMPOESU

Published: Jul 2021 in Industrial Applications of Green Solvents, Vol I

DOI: 10.21741/9781644901458

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Protection against mechanical risks provided by gloves used by firefighters in intervention actions

Authors (7): C Arvinte; L Hristian ... C Bejinariu

Published: Jun 2021 in Journal of Physics: Conference Series

DOI: 10.1088/1742-6596/1960/1/012016

Not indexed in  
the Web of  
Science

Phosphate coatings for the protection of steels reinforcement for concrete

1

Authors (6): Lazar, P.; Bejinariu, C. ... Burduhos-Nergis, D.P.

Published: Jun 2021 in Journal of Physics: Conference Series

DOI: 10.1088/1742-6596/1960/1/012013

Accession Number: INSPEC:20748331

Phosphate Coatings Suitable for Personal Protective Equipment

Published: Feb 2021 in Industrial Applications of Green Solvents, Vol I

DOI: 10.21741/9781644901113

Not indexed in  
the Web of  
Science

Methodology for Assessing the Degree of Occupational Safety Specific to  
Hydrotechnical Construction Activities, in Order to Increase Their  
Sustainability

4

Authors (8): Vasilescu, Gabriel Dragos; Petrilean, Codrut Dan ... Bejinariu,  
Costica

Published: Feb 2021 in Sustainability

DOI: 10.3390/SU13031105

Accession Number: WOS:000615650700001

Hard Alloys with High Content of WC and TiC—Deposited by Arc Spraying  
Process

Not indexed in  
the Web of  
Science

Authors (5): Stefan Lucian Toma; Radu Armand Haraga ... Costica Bejinariu

Published: Jan 2021 in Welding - Modern Topics

DOI: 10.5772/INTECHOPEN.94605

Immersion Behavior of Carbon Steel, Phosphate Carbon Steel and Phosphate  
and Painted Carbon Steel in Saltwater

26

Authors (3): Bejinariu, Costica; Burduhos-Nergis, Diana-Petronela; Cimpoesu,  
Nicanor

Published: Jan 2021 in Materials

DOI: 10.3390/MA14010188

Accession Number: WOS:000606063000001

Phosphate Surface Treatment for Improving the Corrosion Resistance of the  
C45 Carbon Steel Used in Carabiners Manufacturing

25

Authors (4): Burduhos-Nergis, Diana-Petronela; Vizureanu, Petrica ...  
Bejinariu, Costica

Published: Aug 2020 in Materials

DOI: 10.3390/MA13153410

Accession Number: WOS:000559047800001

Characterization of Zinc and Manganese Phosphate Layers Deposited on the  
Carbon Steel Surface

3

Authors (5): Burduhos-Nergis, D.P.; Cazac, A.M. ... Bejinariu, C.

Published: Jul 2020 in IOP Conference Series: Materials Science and

Engineering

DOI: 10.1088/1757-899X/877/1/012012

Accession Number: INSPEC:19785430

Influence of the Stand-off Distance and of the Layers Thickness on the Adhesion and Porosity of the 97MxC Deposits Obtained by Arc Spraying Process

Authors (5): R A Haraga; D L Chicet ... C Bejinariu

Published: Jun 2020 in IOP Conference Series: Materials Science and Engineering

DOI: 10.1088/1757-899X/877/1/012020

Not indexed in  
the Web of  
Science

Evaluation of the Corrosion Resistance of Phosphate Coatings Deposited on the Surface of the Carbon Steel Used for Carabiners Manufacturing

36

Authors (4): Burduhos-Nergis, Diana-Petronela; Vizureanu, Petrica ...

Bejinariu, Costica

Published: Apr 2020 in Applied Sciences

DOI: 10.3390/APP10082753

Accession Number: WOS:000533352100117

Carbon steel carabiners improvements for use in potentially explosive atmospheres

Not indexed in  
the Web of  
Science

Authors (5): Diana-Petronela Burduhos-Nergis; Costica Bejinariu ... Elena-Raluca Baciu

Published: Jan 2020 in MATEC Web of Conferences

DOI: 10.1051/MATEC202030500015

Why do the psycho-social conditions in the field of mining require changes to occupational health and safety legislation?

Not indexed in  
the Web of  
Science

Authors (5): Andrei-George Albulescu; Costică Bejinariu ... Mihai-Adrian Bernevig-Sava

Published: Jan 2020 in MATEC Web of Conferences

DOI: 10.1051/MATEC202030500091

Shock Resistance Improvement of Carbon Steel Carabiners Used at PPE

6

Authors (6): Burduhos-Nergis, Diana-Petronela; Sandu, Andrei-Victor ...

Bejinariu, Costica

Published: Aug 2019 in MATEC Web of Conferences

DOI: 10.1051/MATEC201929012004

Accession Number: WOS:000569367700133

MEVA - a new method of occupational health and safety risk assessment

0

Authors (8): Darabont, Doru-Costin; Smidu, Eduard ... Bernevig-Sava, Mihai-Adrian

Published: Aug 2019 in MATEC Web of Conferences

DOI: 10.1051/MATEC201929012008

Accession Number: WOS:000569367700137

Technical requirements and materials used in firefighters gloves manufacturing

Not indexed in  
the Web of  
Science

Authors (5): C Arvinte; A V Sandu ... C Bejinariu

**Studies on galvanic corrosion of metallic materials in marine medium**  
Authors (6): C Nejneru; C Savin ... C Bejinariu  
Published: Jul 2019 in IOP Conference Series: Materials Science and Engineering  
DOI: 10.1088/1757-899X/572/1/012106

Not indexed in the Web of Science

**Electrical and thermal characteristics of nitinol wires for linear heat detectors**  
Authors (6): C A Micu; P Ciubotariu-Ana ... C Bejinariu  
Published: Jul 2019 in IOP Conference Series: Materials Science and Engineering  
DOI: 10.1088/1757-899X/572/1/012072

Not indexed in the Web of Science

**Investigations of thermal degradation and electrical properties of polyamide materials versus polybismaleimide materials for fire-fighters helmets**  
Authors (5): P Ciubotariu-Ana; N-M Lohan ... C Bejinariu  
Published: Jul 2019 in IOP Conference Series: Materials Science and Engineering  
DOI: 10.1088/1757-899X/572/1/012031

Not indexed in the Web of Science

**Influence of process parameters for Selective Laser Melting on the roughness of 3D printed surfaces in Co-Cr dental alloy powder**  
Authors (7): A M Baciu; C Bejinariu ... E R Baciu  
Published: Jul 2019 in IOP Conference Series: Materials Science and Engineering  
DOI: 10.1088/1757-899X/572/1/012054

Not indexed in the Web of Science

**Materials types and selection for carabiners manufacturing: a review**  
Authors (5): D P Burduhos-Nergis; C Baciu ... C Bejinariu  
Published: Jul 2019 in IOP Conference Series: Materials Science and Engineering  
DOI: 10.1088/1757-899X/572/1/012027

Not indexed in the Web of Science

**Influence of surface roughness and current intensity on the adhesion of high alloyed steel deposits - obtained by thermal spraying in electric arc**  
Authors (6): Haraga, R.A.; Bejinariu, C. ... Toma, S.L.  
Published: Jul 2019 in IOP Conference Series: Materials Science and Engineering  
DOI: 10.1088/1757-899X/572/1/012056  
Accession Number: INSPEC:18919994

3

**Galvanic Corrosion of Ductile Cast Iron Coupled with Different Alloys in Synthetic Domestic Waste Water**  
Authors (6): Savin, Cristian; Nejneru, Carmen ... Sandu, Andrei Victor  
Published: Feb 2019 in Revista de Chimie  
DOI: 10.37358/RC.19.2.6945  
Accession Number: WOS:000461982200030

3

The Galvanic Corrosion Behavior of Phosphated Carbon Steel Used at Carabiners Manufacturing	4
Authors (7): Burduhos-Nergis, Diana Petronela; Nejneru, Carmen ... Bejinariu, Costica	
Published: Jan 2019 in Revista de Chimie	
DOI: 10.37358/RC.19.1.6885	
Accession Number: WOS:000460428100047	
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Authors (5): Buzea, C. Gh.; Bejinariu, C. ... Agop, M.	
Published: Nov 2009 in International Journal of Nonlinear Sciences and Numerical Simulation	
DOI: 10.1515/IJNSNS.2009.10.11-12.1399	
Accession Number: WOS:000276427900006	
A Theoretical Approach of the Electrical Conductance in Nanostructures	2
Authors (5): Abacioaie, Dan; Paun, Maria-Alexandra ... Agop, Maricel	
Published: Aug 2008 in Revista de Chimie	
Accession Number: WOS:000260067700021	
New theoretical approach of the physical processes in nanostructures	40
Authors (4): Agop, M.; Forna, N. ... Bejenariu, C.	
Published: Apr 2008 in Journal of Computational and Theoretical Nanoscience	
DOI: 10.1166/JCTN.2008.2489	
Accession Number: WOS:000255548400006	
Suggestions for classifying the fractals and their connections with the Cantor's cardinal numbers	0
Authors (4): Gottlieb, I.; Agop, M. ... Bejenariu, C.	
Published: Feb 2008 in Journal of Physics: Conference Series	
DOI: 10.1088/1742-6596/96/1/012142	
Accession Number: WOS:000262613600143	
Effects of nanoparticle clustering on the heat transport in nanofluids through fractal theories	1
Authors (5): Girtu, Manuela; Agop, Maricel ... Popa, Camelia	
Published: Feb 2008 in Revista de Chimie	
DOI: 10.37358/RC.08.2.1732	
Accession Number: WOS:000254801400014	
The heat transport in nanofluids: a theoretical approach through the fractal theories	2
Published: 2008 in Materiale Plastice	
Accession Number: WOS:000255295400020	
Determining the force and pressure at the extrusion of union nuts from cylindrical semiproducts	0

Authors (4): Bejinariu, C.; Susan, M. ... Toma, S. L.

Published: Jun 2007 in Surface Engineering and Applied Electrochemistry

DOI: 10.3103/S1068375507030155

Accession Number: WOS:000414013900015

The influence of drawing speed at the drawing made from bearings steels in supersounds field

0

Authors (5): Susan, M; Rusu, I ... Bejinariu, C

Published: 1997 in Euromat 97 - Proceedings of the European Conference on Advanced Materials and Processes and Applications: Materials, Functionality & Design, Vol 1

Accession Number: WOS:A1997BJ43L00165

The diffractographic study of remaining stresses for drawn of wires made by RUL1V in supersounds field

0

Authors (5): Susan, M; Munteanu, C ... Comaneci, R

Published: 1997 in EUROMAT 97 - PROCEEDINGS OF THE EUROPEAN CONFERENCE ON ADVANCED MATERIALS AND PROCESSES AND APPLICATIONS: MATERIALS, FUNCTIONALITY & DESIGN, VOL 4

Accession Number: WOS:A1997BJ43P00055

METHOD FOR THE TENSIMETRICAL MEASUREMENT OF THE FORCES ON THE CHUCKS JAWS

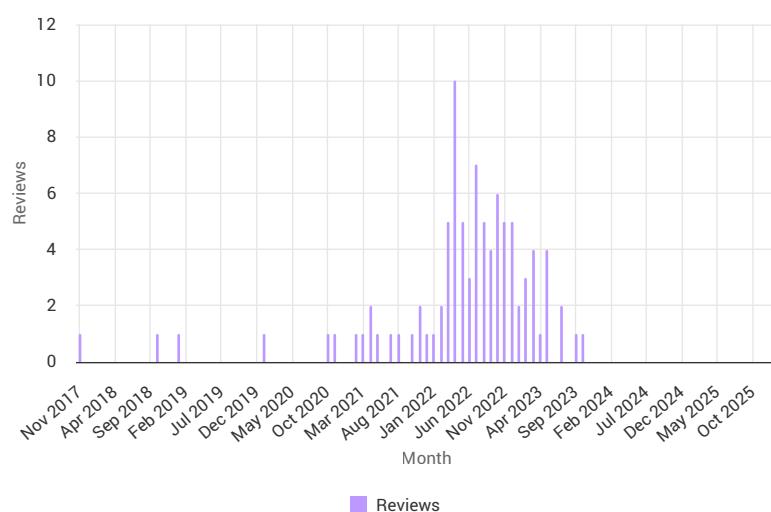
0

Published: 1992 in Risk Minimization By Experimental Mechanics: Imeko / Gesa Symposium

Accession Number: WOS:A1992BV96L00009

## Verified Reviews

### Review Summary



### Reviewer Summary

For manuscripts reviewed from date range January 1990 - January 2026

(36) Materials

(34) Coatings

(10) Metals
(2) Standards
(1) Powder Technology
(1) Surface and Coatings Technology
(1) Sustainability

(4) Applied Sciences
(2) International Journal of Molecula...
(1) Materials Science in Semiconduc...
(1) Journal of Manufacturing and Ma...

## 93 REVIEWS OF 59 MANUSCRIPTS

For manuscripts published from date range January 1990 - January 2026

Application of laser-induced breakdown spectroscopy for analysis of multilayer, functionally graded and corroded materials

2 rounds from Sep 2023 to Oct 2023 for Materials

Mechanical and Corrosion Behavior of a Composite Gradient Structured Cu-Fe Alloy

2 rounds from Jul 2023 to Jul 2023 for Metals

Jet Electrodeposition of Corrosion Resistant Superhydrophobic Surface on Copper Substrate

Reviewed: May 2023 for Coatings

The Effect of Boron (B) on the Microstructure and Graphite Morphology of Spheroidal Graphite Cast Iron

2 rounds from May 2023 to May 2023 for Materials

Ultra-Low Cycle Fatigue Life Prediction Model-A Review

Reviewed: May 2023 for Metals

Electrochemical Corrosion Behaviour of Ti-N-O modified layer on the TC4 titanium alloy prepared by hollow cathodic plasma source oxynitriding

Reviewed: Apr 2023 for Metals

Corrosion effected bond behavior between PVA fiber reinforced concrete and steel rebar under chloride environment

2 rounds from Mar 2023 to Mar 2023 for Materials

The Cultivation Modality and Barrier Maturity Modulate the Toxicity of Industrial Zinc Oxide and Titanium Dioxide Nanoparticles on Nasal, Buccal, Bronchial, and Alveolar Mucosa Cell-Derived Barrier Models

2 rounds from Jan 2023 to Mar 2023 for International Journal of Molecular Sciences

Study on the influence of heat treatment process on corrosion resistance of micro-cutting machined surface

Reviewed: Mar 2023 for Coatings

Evaluation of the spark plasma sintering of titanium diboride-reinforced titanium matrix composites

2 rounds from Feb 2023 to Feb 2023 for Materials

Corrosion resistance of nickel-aluminum sinters produced by HPHT/SPS high-pressure method

2 rounds from Jan 2023 to Feb 2023 for Materials

Asking about the risk: a new approach to learn the ISO 45001

2 rounds from Dec 2022 to Dec 2022 for Standards

Study on corrosion mechanism and low cycle fatigue behaviour of Q345R steel influenced by *Thiobacillus ferrooxidans*

Reviewed: Dec 2022 for Materials

Impact of the Initial Phase Composition of Alloys on the Effects Manifested by Yield Sites That Occur on Sheet Aluminum Alloys Subjected to Impact-Oscillatory Loading

2 rounds from Nov 2022 to Dec 2022 for Materials

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Assessment of corrosion resistance of shot peened X5CrNi18-10 steel

2 rounds from Oct 2022 to Dec 2022 for Materials

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Molecular dynamics study on crack propagation in Al containing Mg-Si clusters formed during natural aging

Reviewed: Nov 2022 for Materials

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A novel protection method for the carbonate stone relics with gypsum weathering crust

3 rounds from Oct 2022 to Nov 2022 for Coatings

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Investigations into Flux-Free Plasma Brazing of Aluminum in a Local XHV-Atmosphere

Reviewed: Nov 2022 for Materials

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The Effect of Initial Grain Size on the Nanocrystallization of AZ31 Mg Alloy during Rotary Swaging

Reviewed: Oct 2022 for Materials

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Combination of Electron Beam Surface Structuring and Plasma Electrolytic Oxidation for Advanced Surface Modification of Ti6Al4V Alloy

2 rounds from Sep 2022 to Oct 2022 for Coatings

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Effect of Oxidation Time on the Structure and Corrosion Resistance of Micro-arc Oxidation Coating of AZ91D Magnesium Alloy in (NH4)2ZrF6 Electrolyte System

2 rounds from Sep 2022 to Oct 2022 for Coatings

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Effect of Different Contents of WC on Microstructure and Properties of NiCrMo Coatings Prepared by PTA

2 rounds from Sep 2022 to Oct 2022 for Coatings

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Corrosion Resistance of Mg/Al Vacuum Diffusion Layers

2 rounds from Aug 2022 to Sep 2022 for Coatings

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Evaluation of Surface Treatment for Enhancing Adhesion at the Metal-Composite Interface in Fibre Metal-Laminates

2 rounds from Aug 2022 to Aug 2022 for Materials

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Effect of WC on Microstructure and Wear Resistance of Fe-based Coating Fabricated by Laser Cladding

2 rounds from Aug 2022 to Aug 2022 for Coatings

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Electroless Deposits of ZnO and Hybrid ZnO/Ag Nanoparticles on Mg-Ca0.3 Alloy Surface: Multiscale Characterization

2 rounds from Jul 2022 to Jul 2022 for Coatings

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Biphenylene: a two-dimensional graphene-based coating with super anti-corrosion performance

Reviewed: Jul 2022 for Materials

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Numerical Study on the Effect of Low-Frequency Power Supply on Desulfurization in the Electroslag Remelting Process

2 rounds from Jul 2022 to Jul 2022 for Metals

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Influence of CeO<sub>2</sub> and TiO<sub>2</sub> particles on physic-chemical properties of composite nickel coatings electrodeposited at ambient temperature

2 rounds from Jun 2022 to Jul 2022 for Materials

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Effect of La<sub>2</sub>O<sub>3</sub> on microstructure and properties of laser cladding SMA/Nb coating on 304 ss  
2 rounds from Jun 2022 to Jul 2022 for Coatings

Bonding Performance of Steel Rebar Coating with Ultra High-Performance Concrete  
2 rounds from May 2022 to Jun 2022 for Applied Sciences

Investigation of the structure and corrosion resistance of novel high entropy alloys for potential biomedical applications  
2 rounds from May 2022 to May 2022 for Materials

Effect of Si Content on Deposition and High-Temperature Oxidation of Al-Si Coatings Obtained by Magnetron Sputtering PVD Method  
Reviewed: May 2022 for Coatings

Thermodynamics Analysis and Pilot Study of Reusing Medium and High Alloy Steel Scrap Using Induction Melting and Electroslag Remelting Process

Reviewed: May 2022 for Metals

Microstructure and Corrosion Behavior of Laser Cladding Fe-CoNiCrBSi Based High-Entropy Alloy Coatings

2 rounds from Apr 2022 to Apr 2022 for Coatings

Chloride adsorption behavior and mechanism study of MgAl layered double hydroxide (LDH) intercalated with nitrates

2 rounds from Mar 2022 to Apr 2022 for Applied Sciences

The effect of magnesium hydroxide addition on the extinguishing efficiency of BC powders

Reviewed: Apr 2022 for Materials

Influence of Plasma Arc Current on the Friction and Wear Properties of CoCrFeNiMn High Entropy Alloy Coatings Prepared on CGI through Plasma Transfer Arc Cladding

2 rounds from Apr 2022 to Apr 2022 for Coatings

Improvement of Structures and Properties of Al<sub>2</sub>O<sub>3</sub> Coating Prepared by Cathode Plasma Electrolytic Deposition by Incorporating SiC Nanoparticles

2 rounds from Mar 2022 to Apr 2022 for Coatings

Comparative study of tribological and corrosion characteristics of TiCN, TiCrCN and TiZrCN coatings

2 rounds from Mar 2022 to Apr 2022 for Coatings

Research on the corrosion behaviors of an austenitic steel in molten aluminum alloy

2 rounds from Mar 2022 to Apr 2022 for Coatings

The Effect of PVP on The Structure of Polyaniline Nanoparticles and Its Anticorrosion Performance in Water-based Coatings

Reviewed: Apr 2022 for Coatings

Characteristics and Causes of Construction Accidents in a Large-Scale Development Project

Reviewed: Mar 2022 for Sustainability

A Closer Look at Precision Hard Turning of AISI4340: Multi-Objective Optimization for Simultaneous Low Surface Roughness and High Productivity

Reviewed: Feb 2022 for Materials

Effect of Natural Aging on Precipitation Strengthening Behaviors in Al-Mg-Si Alloy

2 rounds from Jan 2022 to Feb 2022 for Metals

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Cohesive Strength and Structural Stability of the Ni-Based Superalloys

2 rounds from Nov 2021 to Dec 2021 for Materials

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Evolution of Annealing Twins in a Hot Deformed Nickel-Based Superalloy

Reviewed: Nov 2021 for Materials

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High Temperature Deformation Behavior and Microstructure Evolution of a Low-density Steel

Fe30Mn11Al1C Microalloyed with Nb and V

Reviewed: Oct 2021 for Materials

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Mechanical and Chemical Characterisation of TiN and AlTiSiN Coatings on a LPBF Processed IN718

Substrate

2 rounds from Jul 2021 to Aug 2021 for Materials

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MOCVD of Noble Metal Film Materials for Medical Implants: Microstructure and Biocompatibility of

Ir and Au/Ir Coatings on TiNi

Reviewed: May 2021 for Coatings

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Mechanical Equilibrium Dynamics Controlling Wetting State Transition at Low-Temperature  
Superhydrophobic Array-Microstructure Surfaces

2 rounds from Apr 2021 to Apr 2021 for Coatings

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Further Development of Wear Calculation and Wear Reduction in Cold Forging Processes

Reviewed: Mar 2021 for Journal of Manufacturing and Materials Processing

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Quantitative Shape-classification of Misfitting Precipitates During Cubic to Tetragonal  
Transformations: Phase-field Simulations & Experiments

Reviewed: Feb 2021 for Materials

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Full - field strain measurement and numerical analysis of a microalloyed steel subjected to  
deformation with strain path change

Reviewed: Nov 2020 for Materials

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Comparative Evaluation of Surface Quality, Tool Wear and Specific Cutting Energy for Wiper and  
Conventional Inserts in Hard Turning of AISI 4340 Alloy Steel

Reviewed: Oct 2020 for Materials

---

The Relationship between the Model of the Laser Biomimetic Strengthening of Gray Cast Iron and  
Matching between Different Brake Pads

Reviewed: Jan 2020 for Metals

---

Structural, optical and surface properties of TiO<sub>2</sub>/Cu<sub>2</sub>O prepared by direct current sputtering

Reviewed: Jan 2019 for Materials Science in Semiconductor Processing

---

Synthesis and Characterization of Bimodal Structured Cu- Fe<sub>3</sub>O<sub>4</sub> Nanocomposites

Reviewed: Oct 2018 for Powder Technology

---

Study on wear property and wear resistance mechanism of high-speed electric arc spraying  
FeNiCrAl coating under high-temperature friction

Reviewed: Nov 2017 for Surface and Coatings Technology

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## Editor records

### Editor Summary

For manuscripts handled from date range January 1990 - January 2026

## (15) Materials

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For manuscripts published from date range January 1990 - January 2026 (15)

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**The Effect of a Duplex Surface Treatment on the Corrosion and Tribocorrosion Characteristics of Additively Manufactured Ti-6Al-4V**

Decision date: 2023-02-24 for Materials

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**Effects of K<sub>2</sub>TiF<sub>6</sub> and Electrolyte Temperatures on Energy Consumption and Properties of MAO Coatings on 6063 Aluminum Alloy**

Decision date: 2023-02-20 for Materials

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**Developing Improved Corrosion-Resistant AA5083-BN/WC Composites for Tribological Applications**

Decision date: 2023-02-14 for Materials

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**Effect of Temperature and Impurity Content to Control Corrosion of 316 Stainless Steel in Molten KCl-MgCl<sub>2</sub> Salt**

Decision date: 2023-02-07 for Materials

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**Corrosion Behavior of Aluminium-Coated Cans**

Decision date: 2023-01-13 for Materials

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**Experimental and Theoretical Tests on the Corrosion Protection of Mild Steel in Hydrochloric Acid Environment by the Use of Pyrazole Derivative**

Decision date: 2022-12-30 for Materials

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**Duplex Coating Combing Vanadate-Intercalated Layered Double Hydroxide and Ce-Doped Sol-Gel Layers on Aluminum Alloy for Active Corrosion Protection**

Decision date: 2022-12-26 for Materials

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**The Synergistic Inhibitions of Tungstate and Molybdate Anions on Pitting Corrosion Initiation for Q235 Carbon Steel in Chloride Solution**

Decision date: 2022-12-09 for Materials

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**CORPORATE SOCIAL RESPONSIBILITY IN EUROPEAN AND ASIAN COUNTRIES**

Decision date: 2022-11-07 for Materials

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**Morphology and Anti-Corrosive Performance of Cr(III) Passivated Zn-Fe Alloy Coating on NdFeB Substrate**

Decision date: 2022-10-21 for Materials

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**Corrosion Behavior of Ti<sub>3</sub>SiC<sub>2</sub> in Flowing Liquid Lead-Bismuth Eutectic at 500 °C**

Decision date: 2022-10-17 for Materials

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**The Failure Mechanism of the 316 SS Heat Exchanger Tube in the Geothermal Water Environment**

Decision date: 2022-10-08 for Materials

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**Reaction Mechanism of CA(6), Al<sub>2</sub>O<sub>3</sub> and CA(6)-Al<sub>2</sub>O<sub>3</sub> Refractories with Refining Slag**

Decision date: 2022-09-22 for Materials

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**Seismic Performance Evaluation of Corrosion-Damaged Reinforced Concrete Columns Controlled by Shear Based on Experiment and FEA**

Decision date: 2022-09-07 for Materials

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Curve-Fitting Algorithm for the Inspection of Subtle Feature Lines on Automotive Outer Panels

Decision date: 2022-09-07 for Materials

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