

IMS Buehler Technical Paper Award

The IMS Buehler Technical Paper of Merit Award is given each year. The articles in the previous year's volumes of the IMS journal ***Metallography, Microstructure, and Analysis (MMA)*** are judged by the IMS Buehler Technical Paper of Merit Award Committee. The IMS Board, Buehler, and the *MMA* Editorial Advisory Board each have at least one representative on the Committee. The Buehler Committee member shall serve as Chair. A commemorative plaque and a \$1,000 cash award, endowed by Buehler are presented at the IMS Annual Convention to the primary author of the paper judged best in dealing with the practice of the metallographic arts.

2007Joanna Michalska and Maria Sonzanska, Department of Materials Science, Silesian University of Technology, Katowice, Poland
Qualitative and quantitative analysis of σ and χ phases in 2205 duplex stainless steel, Volume 56, pages 355 - 362

2008Hans J. Leber, Markus Niffenegger and Bernard Tirbonod, Paul Scherrer Institut, Nuclear Energy and Safety Research Department, Laboratory for Materials Behaviour, Villigen PSI, Switzerland
Microstructural aspects of low cycle fatigued austenitic stainless tube and pipe steels, Volume 58, pages 1006 - 1015

2009..... Dennis W. Hetzner, Senior Material Specialist, The Timken Co., Canton, Ohio, United States; William Van Geertruyden, General Manager, EMV Technologies, Bethlehem, Pennsylvania, United States
Crystallography and metallography of carbides in high alloy steels Volume 59, Number 7

2010..... S. Otarawanna, C.M. Gourlay, H.I. Laukli and A.K. Dahle
The Thickness of Defect Bands in High-Pressure Die Casting, Volume 60, pages 1432-1441.

2012.....A. M. Dalley
Full Thickness Decarburization of the Steel Shell of an Annealing Furnace, Volume 1, 2012, pages 59-64.

2014.....S. Nafisi and R. Ghomashchi
Microstructural Evolution of Electromagnetically Stirred Feedstock SSM Billets During Reheating Process Volume 2, 2013, Page 96-106.

2015.....T. Nizolek, N.A. Mara, I.J. Beyerlein, J.T. Avallone, J.E. Scott, and T.M. Pollock
Processing and Deformation Behavior of Bulk Cu-Nb Nanolaminates. Volume 32, 2014, Page 470-476.

2016.....M. Cohen, D. Ashkenazi, Y.Kahanov, A. Stern, S. Klein, D. Cvikel
The Brass Nails of the Akko Tower Wreck (Israel): Archeometallurgical Analyses Metallogr. Microstruct. Anal. (2015) 188-206.

- 2017.....B. Domeij, Juan Carlos Hernado, Attila Diószegi
Quantification of Dendritic Austenite After Interrupted Solidification in a Hypoeutectic Lamellar Graphite Iron, (2016) 28-42.
- 2018..... Athanasios Vazdirvanidis, George Pantazopoulos
Metallographic Study of Great Anthony Historical Bronze Bells of Apostle Andrew Skete in Mount Athos, Greece, Volume 6, (2017) 340-351
- 2019..... Chris Bagnall, FASM
Oxidation Behavior of Tungsten Carbide-6% Cobalt Cemented Carbide, published in Metallography, Microstructures & Analysis, Volume 7, (2018), Pages 661-679
- 2020..... Pascal Schmalen, Karthik Mathivanan and Peter Plapper
Metallographic Studies of Dissimilar Al-Cu Laser-Welded Joints Using Various Etchants, Volume 8, (2019), Pages 3-11
- 2021..... Moshe Bram · N. Iddan · Dana Ashkenazi, Deborah Cvikel
The Nineteenth-Century Molyneux's Boat: Archaeometallurgical Perspective of its Metal Fastenings, Volume 9,(2020), Pages 721-743
- 2022..... Pavlo Markovsky · Jacek Janiszewski · Vadim Bondarchuk · Oleksandr Stasyuk · Kamil · Cieplak · Olga Karasevska
Effect of Strain Rate on Mechanical Behavior and Microstructure Evolution of Ti-Based T110 Alloy, Volume 10, (2021), Pages 839-861
- 2023..... Tinh Huynh · Abhishek Mehta · Kevin Graydon · Jeongmin Woo · Sharon Park · Holden Hyer · Le Zhou · D. Devin Imholte · Nicolas E. Woolstenhulme · Daniel M. Wachs · Yongho Sohn
Microstructural Development in Inconel 718 Nickel-Based Superalloy Additively Manufactured by Laser Powder Bed Fusion, Volume 11, (2022), pages 88–107
- 2024..... Ahad Shafiee · Hadi Ghasemi-Nanesa · Mahdi Habibnejad-Korayem · Philippe Bocher
Alternative Reagent for Revealing the Entire Microstructure of Additive Manufactured Ti-6Al-4V Alloy”, Metallography, Microstructure, and Analysis (2023) 12:1047–1054
- 2025..... Jayshri Dumbre · Zherui Tong · Dashen Dong · Dong Qiu · Mark Easton
Buffered Oxide Etch: A Safer, More Effective Etchant for Additively Manufactured Ti-Alloys, (2024) 13:871–879