



Nano Brief



Happy Holidays!

From all of us at



Ornament spheres represent new lab services for your success in 2022!

Each ornament sphere is a Raman false-color map of a carbon inclusion in cast iron. Bright and dark areas in each globe represent areas of the inclusions with high sp^2 and sp^3 character, respectively.



Dear Customers and Friends,

As the holiday lights begin blinking on the snow-covered pine trees and junipers, it is time to spread holiday cheer by sharing the joys, expectations, and hopes for the coming new year. We hope that a prosperous, healthy, and pandemic-free 2022 will be soon upon us.

The COVID-19 pandemic raised many challenges in 2021, not the least of which were unexpected global supply chain issues, labor shortages, and concerns over economic inflation. However, through vigilance and understanding, along with the help of vaccinations, we met these challenges head-on. Our unwavering perseverance through these difficult times has resulted in encouraging signs of economy recovery, a drop in unemployment rates, and economic and business growth.

Adapting to the unusual circumstances faced in 2021, Ebatco has seen a very healthy and promising growth in business, both in revenue and in lab service offerings. We believe it is a result of our business investment strategy among many other contributing factors. As you can see from the highlights in the holiday greeting card, to fuel future growth and to better support your testing and analytical needs in the future, this year we have invested and acquired five more instruments:

1. An Agilent 5900 SVDV ICP-OES, a PC controlled Synchronous Vertical Dual View Inductively Coupled Plasma - Optical Emission Spectrometer, which further expands our elemental measurement capabilities, especially for trace elements.
2. An Anton Paar MCR 302e, a Modular Compact Rheometer with temperature control and low viscosity module, which offers advanced rheological testing capabilities for liquids, chemicals, food ingredients, polymers, plastics, etc.
3. A BYK Gardner BYK-mac i 23 mm, a multi-angle color and effect spectrophotometer, which enables color measurements at different viewing angles, sparkle and graininess measurements, and fluorescent detection and quantification in the visible range.
4. A BYK Gardner micro-TRI-gloss, a universal gloss meter for high, semi, or low-gloss surfaces. Working together with the BYK-mac i 23mm color meter, the visual effects of surface finishes of coatings, paints, plastics or even mirror-like metals can be quantified.
5. A Shimadzu AGX-V 10kN, an AUTOGRAPH Precision Universal Tester, which expands our mechanical testing capabilities in tensile, compression, bending and shear mode from the nano and micro scale to the macro scale.

We also understand the need to invest in talent and human resources to sustain the company's growth. If you would like to join a growing nanotech company, and you have a passion for exceeding customer's expectations, please consider sending in your application for any of the following positions:

1. Technical Sales Engineer, for Ebatco headquarters in Eden Prairie, MN
2. Technical Sales Engineer, for Ebatco east coast office in DC, Baltimore, Philadelphia area
3. Technical Sales Engineer, for Ebatco west coast office in the San Francisco Bay area
4. NAT Lab Technician, for Ebatco headquarters in Eden Prairie, MN
5. Office Administrator, for Ebatco headquarters in Eden Prairie, MN

Last, but not least, we would like to express our sincere gratitude to all of you: our customers and friends for your continuing business, support, and encouragement. It is because of you we experienced another successful year! Thank you!

Looking forward to 2022, we hope the COVID-19 pandemic will be gone so that we could meet you in person to enjoy collaborations and laughter together. We will continue striving to meet and exceed your expectations in the technical consulting and contract lab services that we offer. When you have any unmet analytical and testing challenges, please remember Ebatco. We are here ready to assist you with our best efforts, expertise, and advanced technologies as always!

May you have a very happy and healthy holiday season, and a great and successful new year!

Yours truly,

Dehua Yang, Ph. D., FASM
President

