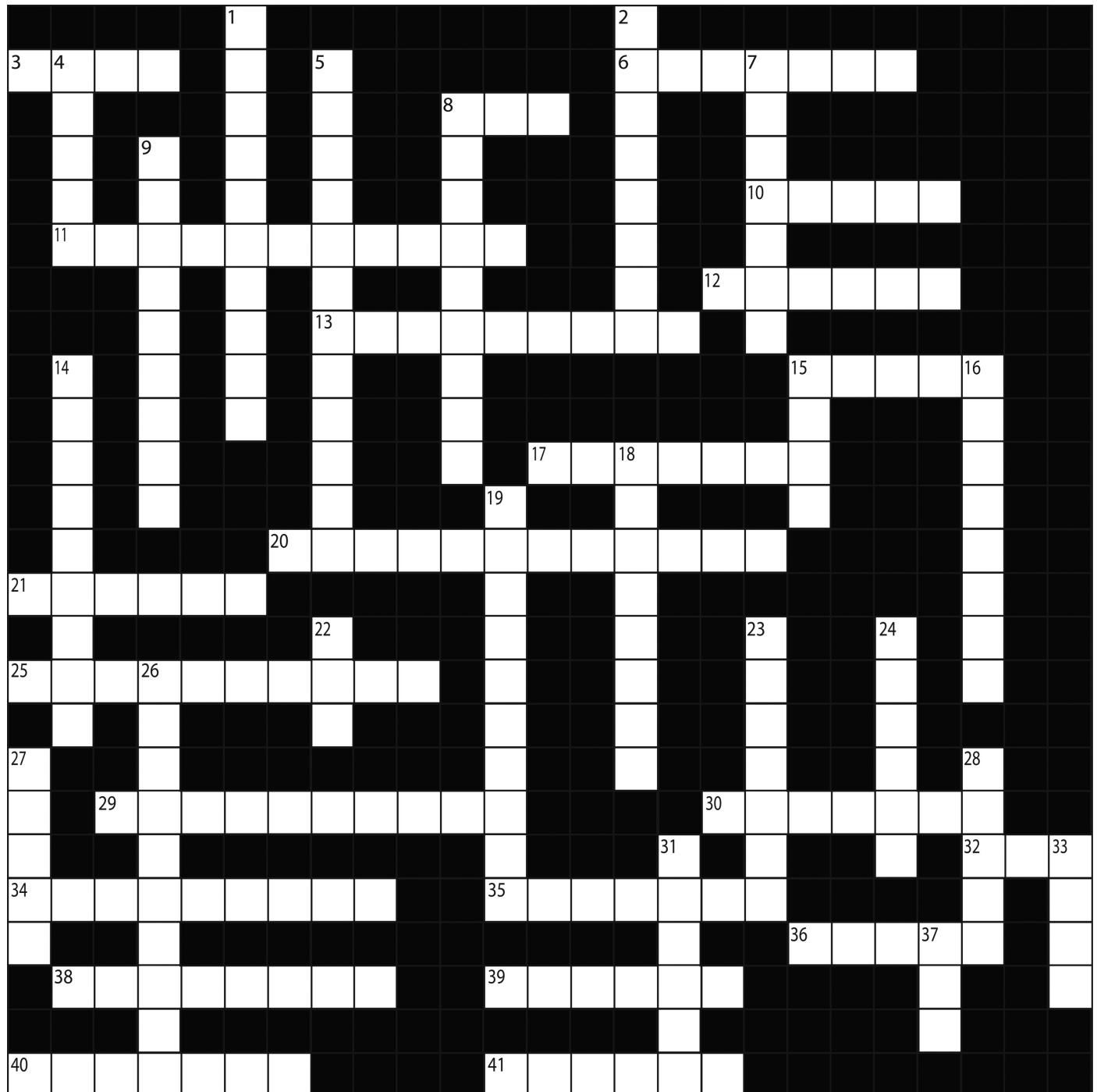
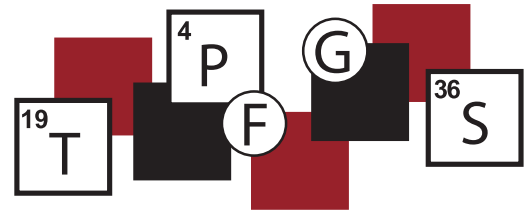


CrosswordPuzzle

Theme: *Microscopy Today* Innovation Awards 2022

by Bev Maleeff



Across

3. Multilayer lenses for X-ray microscopy
6. Characteristic of solids used to determine behavior
8. Density function theory (abbr.)
10. Andor's Differential _____ Contrast
11. Facility that may operate a hard X-ray zone plate-based microscope
12. Scanning disk used in some confocal microscopy systems
13. Reduced _____ for deep imaging using NL5
15. _____-resolution microscopy, disruptive life sciences tool
17. Pattern projected onto sample using motorized galvo with DeepSIM
20. Novel tomographic image reconstruction algorithm
21. _____ networks used by ZEISS algorithm to convert high-noise 2D images into 3D volume
25. Platform developed by Scientifica, Ltd.
29. Required alignment between multilayer lenses
30. Co-developer of ANL and ThermoFisher innovation
32. Minimum detectable mass fraction (abbr.)
34. Media not needed for objectives used with DeepSIM
35. Heterogeneous _____ of solids affects analysis of acidity
36. Developer of deep-learning software
38. BC43 _____ confocal system from Andor Technology
39. Delmic developed this technology
40. Slit _____, component of NL5 confocal upgrade
41. Trade name for XPAD detector

Down

1. One of two sites for MLL/MEMS technology development
2. 64 _____ beams used for large field-of-view images
4. Atomically-Resolved determination of Proton Affinity of Surface Atoms (abbr.)
5. Target audience for Scientifica, Ltd. innovation
7. Super-resolution module developed by CrestOptics
8. Result of process used by ZEISS
9. Excitation or emission _____
14. Specimens held at _____ temperatures to stop surface diffusion
15. Focus _____ and Lock; Andor Technology innovation
16. This leads to innovation
18. Coating on ARPAS AFM tip
19. Images acquired by FAST-EM stitched together to form these
22. Field-of-view (abbr.)
23. Some technologies recognized with a *Microscopy Today* Innovation Award provide this
24. 3D atom probe tomography system by CAMECA
26. _____ annual *Microscopy Today* Innovation Awards presented in 2022
27. Property of scintillator acting as sample substrate in Delmic innovation
28. Camera used by Confocal.nl for live-cell imaging
31. Developer of APT for superalloys and insulators
33. _____ scanning with NL5 technology
37. Does not require liquid nitrogen cooling

Answers to this crossword puzzle can be found on page 65.

Answers to the July crossword puzzle can be found on page 61.

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