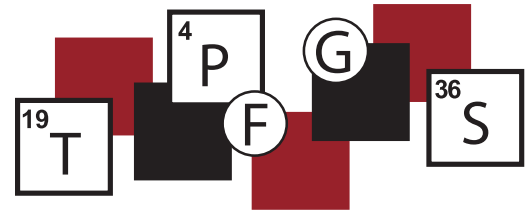


CrosswordPuzzle

Theme: Light Microscopy

by Erica Clark and Aubrey Penn



| | | | | | | | | | | | | | | |
|-----|----|----|----|----|-----|----|------|------|------|------|------|------|------|----|
| 1 ○ | | 2 | 3 | 4 | 5 ○ | 6 | 7 | | 8 ○ | | 9 | 10 | 11 | |
| | | 12 | | | | | | | 13 | | | 14 | | 15 |
| 16 | | | | | | | | | 17 ○ | | | 18 | | |
| | | 19 | | | 20 | | 21 | | | 22 | | 23 | | |
| 24 | 25 | | | | 26 | 27 | | 28 | | | | 29 | | |
| 30 | | | | 31 | | | | | | 32 | 33 | | | |
| | | | 34 | | 35 | | 36 ○ | | | 37 | | | | |
| | 38 | 39 | | | | | 40 ○ | | | | | | | |
| 40 | | | | 41 | | | 42 ○ | | | | | | | |
| | 42 | | | | | | | 43 | 44 | | | 45 | | 46 |
| 47 | | | | 48 | | | | | 49 ○ | | | 49 | | |
| | 50 | | | | | | | | 51 ○ | | | | | |
| | 52 | | | 53 | 54 | | 55 | | 56 ○ | | | | | |
| 57 | | | | | 58 | 59 | | 60 ○ | 61 ○ | 62 ○ | 63 ○ | 64 ○ | 65 ○ | 66 |
| 62 | | | | | 63 | | | | | 64 | | | | |

Across

1. Determined by the wavelength of light and aberrations
9. Your start-up may be this (abbr.)
12. A castle tower, or a rotating piece on a light microscope
13. Alternative to light-source imaging (abbr.)
14. The "i" in HIM-SIMS
16. Original state of a Foldscope microscope
17. With an O between these two letters, an abbr. for the observable area with a given technique and conditions
18. Wildebeest
19. Notorious Algerian terrorist group (abbr.)
21. Small pests repelled by certain collars
23. AKA kV or accelerating voltage
24. We need microscopes because this isn't good enough
26. Microscopy technique to exclude the unscattered beam from the image (abbr.)
28. Coffee container
29. The old college ___
30. Home state of CU Facility for Electron Microscopy of Materials
32. Neuroscience publication
34. Vegetable skin remover
37. Condenser, objective, etc.
38. (2 words) Following "On the...", the end of a phrase meaning that two people understand each other. Also, a clue to the circled letters in 1- and 58-Across and 17- and 27-Down
40. There's an ___ for that!
41. Term first coined by Richard Dawkins, far before the internet began
42. Exclamation of surprise and alarm
43. What one "plays" when experiencing a backlog of work
47. Go to channel 3 to watch a movie on this in the '90s (abbr.)
48. Lens type to focus a parallel beam
49. Greek grapheme, now just "e"
50. Possessive without an apostrophe
51. Begging request
52. Micro (Gr.)
53. Allow the microscope to do the work for you (abbr.)
55. US capital
57. Put me in a field and see the ___ effect
58. Affected by aperture, a description of beam expansion
62. Number of available magnifications on a child's starter microscope
63. Mo. sometimes containing the Easter holiday
64. Good for photons, but not electrons

Down

1. Bounce back light
2. For a microscope, most move in the x, y, and z directions
3. Three _____ end a half inning in baseball
4. 96 x 96 px
5. Possessive texting abbr.
6. Number beginning for every DOI
7. Information Technology (abbr.)
8. Never say this
10. Variations include ring and coaxial
11. Can be increased by stretching the histogram to span the dynamic range
15. Lowercase frequency (Gr.)
17. Love, D., & Goodhand, I. (2019). *Microscopy Today*, 27(5), 26-30.
20. Its surface looks like Morse code under a microscope (abbr.)
22. Radial or azimuthal
25. "I" in Spanish
27. Replace me when I burn out
31. Appear to be
33. (2 words) A covering to prevent dust accumulation
34. Night time (abbr.)
35. Female woolly animal
36. The day before
38. Sample
39. Lets the light through
44. Single-bladed wood-cutting implement
45. Bellatrix, The Red Queen, Madame Thénardier actress
46. (pl.) Zernike developed this contrast microscopy
54. A US Federal agency that verifies the safety of new medications
55. TiVo
56. Bird-to-be
57. The end of a boxing match (abbr.)
59. Digital address (abbr.)
60. Spelled-out nickname for a primary transportation system in Chicago
61. Causes position error in images (abbr.)

Answers to the crossword puzzle can be found on page 81.

MT



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