

Crossword – 2

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38					39		40				41
		42		43			44				
45									46		

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### Across

1. Learn . Network . Advance.
5. The fourth position (as in xylene).
9. A head-banger made of different minerals.
11. An X-Nobel laureate.
13. The only inert teen.
14. A couple produced by an ionizing radiation (acronym).
15. Behind the field emission success (initials only).
16. Too small, Dr. Feynman.
21. Area-51 donor.
22. The grand daddy particle accelerator.
23. Says NO to nuclear weapons and YES to nuclear energy.
24. To remove or separate carefully (as in chemistry).
27. One of the four ligaments required for the stability of the knee joint (acronym).
28. To apply high frequency sound waves.
31. A post-quenching treatment (generally).
33. Is produced by electrical breakdown and used for cutting and welding.
34. The percentage of oxygen required to support combustion in a gas mixture (acronym).
36. Oil immersion field (acronym).
38. The per unit time consequence (as in chemical reactions).
39. The unit of magnetizing field.
42. An impact strength testing method.
44. "Equal", as in organic chemistry.
45. Systematically log the results.
46. A resistor, an inductor, and a capacitor.

### Down

1. A three terminal solid state device.
2. Its sulfide is a solid lubricant.
3. To raster a beam of electrons for analysis.
4. Father-son Nobel laureates.
5. An inert catalyst used in automobiles.
6. It has the highest thermal conductivity (metal).
7. To bounce back.
8. Heated and relieved.
10. A method to extract titanium from its ore.
11. Houses a nuclear reaction.
12. Standard temperature and pressure.
17. A thermoplastic with the formula  $(C_8H_8)_x \cdot (C_4H_6)_y \cdot (C_3H_3N)_z$ .
18. Chemically distinct, physically homogenous and mechanically separable.
19. By which ions of a material can be implanted into another material (acronym).
20. An electronic device that stores energy.
25. The pressure exerted by the flow of water through a semipermeable membrane separating two solutions with different concentrations of solute.
26. Electronegativity (acronym).
29. A software that analyzes microstructures and more (acronym).
30. The transfer of glide of a screw dislocation from one slip plane to another during deformation or thermal recovery..
32. Squeezing effect in certain materials.
35. Its sulfide is used in some antidandruff shampoos.
37. The fourth most common element in earth's crust.
39.  $4m+1$  in crystallography.
40. A method of cleaning wafers by high energy ions.
41. Based on the principle of interferometry, it enhances the contrast in unstained, transparent samples.
43. Boolean: A + B.

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