

## Solution to element crossword challenge

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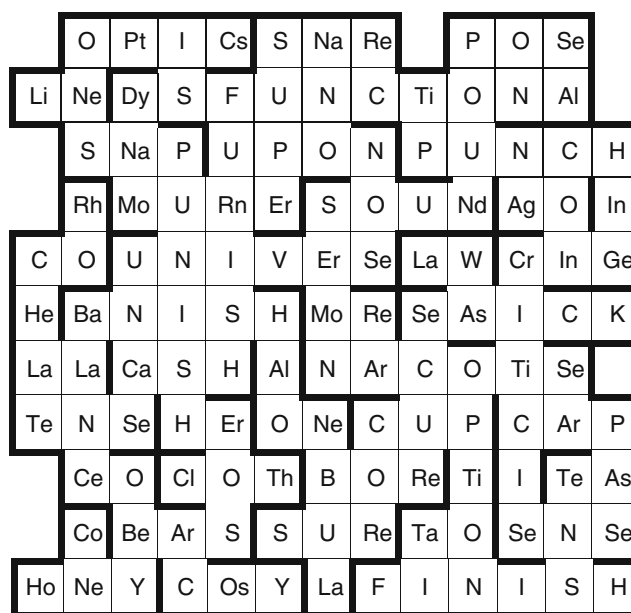
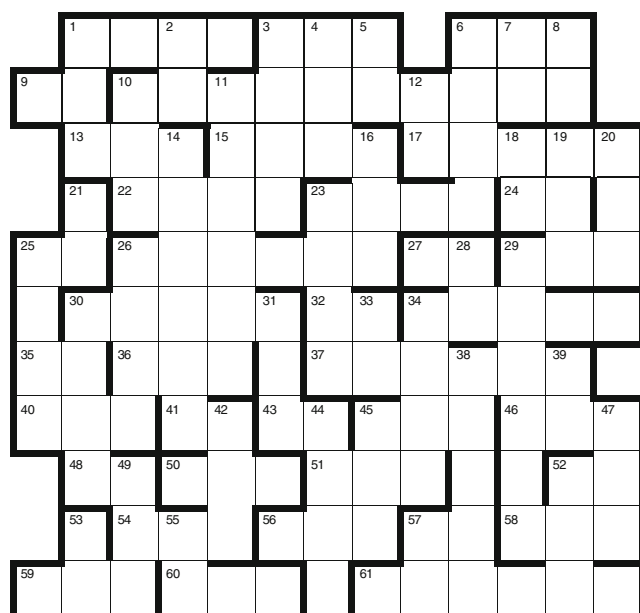
The winner of the element crossword challenge (published in volume 412 issue 9) is:

Chin-Fen Teo, University of California, San Francisco, CA, USA.

The award entitles the winner to select a Springer book of her choice up to a value of €100,-.

Our Congratulations!

### Solution



### Across

**1** Concerns vision and perception. **3** Noose, frequently found in a drummer's set. **6** Show off to impress me. **9** Not to cross if red. **10** Not a state you want your gadgets in. **13** Released their Power in 1990. Tear. **15** Once .... a time. **17** A drink, a push, a blow. **22** A close one at a funeral. **23** HiFi aims to make it truly realistic. **24** Previously. Add a Big Apple for pain. **25** S(h)ort of a firm. **26** Eternal and mostly ethereal surrounding. **27** Rules from an authority. **29** Possibly the result of a shr(i)ek. **30** Displace as a higher authority. **32** Un-less. **34** Keeping the eyes on the horizon might help if this. **35** Romantic movie land. **36** Manifests in 19 down. **37** Turn off 58 across. **40** A condition of being tight. A time of speech. **41** Applies to about 50% of humans. **43** is greater than this by forty two. **45** A typical dosage of 52 across. **46** Decorative element in a pond maybe. Complain grumpily. **48** The Boss (in enterprise terms). **50** Limb-wrap. **51** This hole isn't fascinating. **52**

This article is the solution to the Analytical Challenge to be found at <https://doi.org/10.1007/s00216-020-02459-1>

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Extracts made in various flavors. **54** Carnivores. A sword shaken. **56** Reliable. **57** Path for life of oriental origin. **58** What 16 down can do. **59** A lure for 54 across. **60** Comfortable. **61** What else could it be (here at the end)?

#### Down

**1** seen more than once. **2** Was, then. **3** Joins with market, man or vision. **4** Popular dimension of the tiniest things. **5** Short for leisure, note or bill. **6** Imperial representation of gravity? British trade unit. **7** Anti off. **8** Isolation at its best. **10** Electron mover **11** Fleecing? No! Do this to your home! **12** Generously given, thankfully accepted! **14** ment to be absent when abiding the 27 across. **16** Airborne's detector. **18** Not for horse racing, not for a good mood. **19** A possible manifestation of 6 down. Not a note. **20** Keeps your door in place. **21** Resembles density. **23** You may want to hear it from a priest – not your neighbor. **25** Complex by multiple means. **26** Anti-

box? **28** Representation of time gone by. **29** To give a rather negative feedback. **30** Good to have for your working life after your work-life. **31** A sort of fuzziness seen around a saint's head. **33** Back. **34** Your password should be this. **38** Left? Right? A choice. **39** What a grill ideally does to the outside only. **42** Greek god of arrows. Love it. **44** Interstellar "fog". **45** Center! Carbonaceous metal-rich mineral?? **47** Over. **49** Do what you are told! **52** Decades, in years. **53** Ice creams crispy companion. **55** Structural element in wider spans. Almost central element of monarchies. **57** A mouthful in Southeast Asia.

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