February 2024 crossword


February 2024 wordoku

|  | $M$ |  | $B$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $I$ |  |  |  | $M$ |  | $S$ |  |  |
| $R$ |  | $A$ | $S$ |  |  |  |  | $E$ |
| $B$ |  |  | $A$ | $E$ |  |  | $I$ |  |
|  |  |  |  |  |  |  |  |  |
|  | $D$ |  |  | $R$ | $S$ |  |  | $M$ |
| $E$ |  |  |  |  | $R$ | $A$ |  | $G$ |
|  |  | $G$ |  | $D$ |  |  |  | $S$ |
|  |  |  |  |  | $A$ |  | $D$ |  |


| $A$ |
| :---: |
| $B$ |
| $D$ |
| $E$ |
| $G$ |
| $I$ |
| $M$ |
| $R$ |
| $S$ |

Solve this wordoku in the same way as a sudoku with letters instead of numbers (each of the nine letters in each row, column and ninesquare cell). Once solved, one of the overall diagonals can be rearranged to give a new cancer drug mentioned in Chemistry World's Pharmaceuticals round-up 2023.

## Cryptic

## Across

1 Pushed the boat out for a bet? (6)
4 Perfect chat about the law? $(5,3)$
10 Rex arranged cheque for the treasurer (9)
11 Polymer found in many long johns? (5)
12 Cloud follows revolutionary scientist (7)
13, 3 Down Titter about camera? It could make you sick $(6,6)$
15 First invoices of new supplier are charged (4)
16 Ray claimed transmuted compound (10)
18 Redesigned casino like Mendeleev's prediction (3-7)
20 Northerner hiding in the wainscotting (4)
23 Is a tiny compound without yttrium (6)
24 I'm extremely understanding about all this metal (7)
26 Found inside a big ship? (5)
27 Not many connections for venal unit abroad (9)
28 Philosopher reacts so surprisingly (8)
29 Compound he created with an ex (6)

## Down

1 Dispenses with fancy crisps and beer? (10)
2 Particular sort of luncheon - but not hot (7)
3 See 13 Across
5 Think about good hydro for the crystallographer $(7,7)$
6 Unusual stew of last of the mutton or a lamb? (8)
7 Physicist transformed naval rig right away (7)
8 Stars in some shows unsupported (4)
9 Beauties can rejig hut for passageway $(10,4)$
14 Letters about recent time measurement (10)
17 First experimental trial is about bacteria (8)
19 Element of the Middle East? (7)
21 Race him around the monster (7)
22 Walk a new route to find 29 Across for example? (6)
25 Drinks in stale surroundings (4)

## Quick

## Across

1, 12 Across Co-recipient of the 2023 Nobel prize in chemistry 'for the discovery and synthesis of quantum dots' $(6,7)$
4 Preserved (a dead body) (8)
10 Oil (9)
11 Monsters (5)
12 See 1 Across
13 Prolific US inventor (6)
15 Whirlpool (4)
16 Poisons found in peanuts infected with the fungus Aspergillus flavus (10)
18 Not clean (10)
20 Danish physicist who won a Nobel prize and has an element named after them (4)
23 Gold-coloured alloy of copper, zinc and tin used for ornamental purposes (6)
24 Nationality of 7 Down (7)
26 Immunoassay analytical technique (abbrev)(5)
$2710^{-9}$ metres (9)
$28\left(\mathrm{CH}_{3}\right)_{2}$ group (8)
29 Goldsmith's crucible (6)

## Down

1 Element named after the Greek for lead since its ores were confused with lead ores (10)
2 Not bent (7)
3 French__-_-, South American country (6)
5 Describing Ada Lovelace and Bertrand Russell for instance (14)
6 Topsoil $(1,7)$
7 Inventor of the wireless telegraph (7)

8 'The ____makes the poison' a saying (albeit paraphrased) attributed to Paracelsus (4)
9 Part of the electromagnetic spectrum beyond microwaves (14)
14 Bitter (10)
17 Unknowing (8)
19 Courage (7)
21 Drugs (7)
22______series describes the spectral line emissions of the hydrogen atom (6)
25 Metal found in galena (4)

## Quick quiz:

1. What are the four states of matter that are observable in everyday life?
2. Which state of matter gets its name from the Greek for chaos?
3. Which two elements are named after US states?
4. Which element has a valley in northern California named after it?
5. What connects the following elements: aluminium, argon, calcium, cobalt, flerovium, gallium, indium, lanthanum, mendelevium, manganese?

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## February 2024 coronene puzzle

This new puzzle is based on coronene. Using the elemental symbols (and not switching the 2 letters of any 2 -letter elemental symbols), place each of the seven elemental symbols in the hexagons to spell out three words reading diagonally (plurals allowed). In each of the four puzzles there will be a shared element in the middle hexagon which when combined and reading across will spell out the name of another compound.

Elements:
A.C, Ce, Co, Li, Po, S, Ts
B. $\mathrm{Al}, \mathrm{Mo}, \mathrm{Nd}, \mathrm{Os}, \mathrm{Re}, \mathrm{Se}, \mathrm{Te}$
A

B

C.Es, Ho, K, Ne, Si, Y, W


C


Answers:
Atlas
Flare
Palace
D. $\mathrm{Ca}, \mathrm{Mo}, \mathrm{Ne}, \mathrm{S}, \mathrm{Te}, \mathrm{Ts}, \mathrm{Y}$
D


January 2024 solutions and winners


## Wordoku

The organic chemist who is a past winner of the RSC's Hickinbottom Award was (Vijay) CHUDASAMA.

Science scramble
1 Sin; 2 Sine; 3 Singe; 4 Genius; 5 Igneous; 6 Ingenious;
7 Yuri Oganessian

## January winners

Science scramble
Karen Verrall
Charfield, UK
Wordoku
lain Melvin
Preston, UK
Cryptic crossword
Arnab Bhattacharya Mumbai, India

Quick crossword
Ian Laming
Chippenham, UK

