

**Full list of all the articles published in Volumes 1-29 of Chemistry Review,
arranged by feature**

100 years ago

Title	Vol.	Issue
Robert Wilhelm Bunsen (1811-1899)	8	3
Edward Frankland (1825-1899)	9	2
Henry Moseley: understanding atomic numbers	23	1
Niels Bohr and atomic structure	23	2

200 years ago

Title	Vol.	Issue
Joseph Black (1728-1799)	9	1

Answer back

Title	Exam Board	Vol.	Issue
The main features of the atomic spectrum of hydrogen	JMB	1	1
A question of organic reactions	JMB	1	2
Chemistry from group V	University of London Schools Examinations 1989	1	3
A question of ideality	JMB	1	4
Rates and orders of reaction	Oxford and Cambridge Examinations Board	1	5
Acids and equilibria	JMB	2	1
Testing and estimating ions	JMB	2	2
Alternative fuels	Salters' Advanced Chemistry	2	3
Have you got redox potential	JMB	2	4
A question of applying knowledge	Salters' Advanced Chemistry	2	5
Silicone polymers	University of London Examinations and Assessment Council, 1992 Nuffield A-level examination	3	1
Distinguishing between pairs of organic compounds	JMB Syllabus B paper 2, Section B, 1990	3	2
The Chemistry of Life	Nuffield Chemistry Special Study 1989	3	3
Social Economic, Environmental and Technological aspects of Chemistry	Oxford & Cambridge, Paper 3 1992	3	4
Born-Haber cycle and lattice energies	Nuffield Paper 2, ULEAC 1988	3	5
A Balancing Act	JMB 1991, paper IIB	4	1
Petroleum technology	Salters' Advanced Level Chemistry	4	2
The importance of revision	Salters' Paper 1, 1992	4	3
Directing aromatic substitution	JMB Syllabus A and Syllabus B 1991	4	4
Mr Midgeley's discovery CFCs	Salters A level examinations 1994	4	5
Tackling calculations	Nuffield Chemistry 1993, Paper 1	5	1
The mystery of the dead deer	Salters A-level 1994	5	2
Ammonia	Oxford and Cambridge Paper 3, Section A 1992	5	3
Transition Metals	NEAB Paper B Section IIA, 1995	5	4
An Unusual Beetle	Salter A level Paper 1 1995	5	5
Reactions of Halogenoalkanes with Potassium Hydroxide	NEAB	6	1
A Potentially Dangerous Fertiliser	Salters (OCR)	6	2
Knocking Your Organic Chemistry into Shape	Oxford & Cambridge	6	3
An Organic Whodunit	WJEC	6	4
Copper Chemistry	Salters (OCR)	6	5
Structures Equations & Mechanisms	NEAB	7	1
Kinetics	NEAB	7	2
Planning Your Chemistry	Nuffield	7	3
Periodic Pattern	NEAB	7	4

Chromatography & Structure of Dipeptide	Nuffield	7	5
Complex Information	OCSEB	8	1
Does faster mean further?	WJEC	8	2
Organic Chemistry	NEAB	8	3
Energy, bonding and haloalkanes	Nuffield	8	4
Obtaining Marks from obtaining Methods	NEAB	8	5
Ethanol as a Fuel	Salters (OCR)	9	1
Solving a chemical jigsaw puzzle	NEAB	9	2
Structure and bonding	NEAB	9	3
Phosphorus and friends	EdExcel	9	4
Testing Halide Ions	AEB	9	5
Testing much more than fertilizers	EdExcel	10	1
Knowledge and how to apply it	NEAB	10	2
Assorted Alcohols	AQA	10	3
Correcting Fluid correct?	NEAB	10	4
Redox rights and wrongs	Edexcel	11	1
Sniffing for extra marks	WJEB	11	2
Patterns in the periodic table	Scottish Higher	11	3
Oxidation and reduction at AS and A2	AQA	11	4
Electronic Structure and Chemical Bonding	Edexcel	12	1
Familiar and less familiar acids	WJEC	12	2
Fuelling the Fire	OCR	12	3
Particles, bonding and shapes	AQA	12	4
Get in the Right Group	OCR	13	1
Organic Synthesis	AQA	13	2
Synoptic Papers and Synoptic Questions	Edexcel	13	3
Longer Responses	AQA	13	4
Halons and the demise of the ozone	OCR	14	1
Tales of the Unexpected June 2003	WJEC	14	2
Acids, bases, pH and buffers	AQA	14	3
Any Old Ion?	Salters (OCR) – A2	14	4
Equilibrium, Enthalpy, Entropy ... and Extras	Salters (OCR) – A2	15	1
Photochemical smog	Salters - Advanced	15	2
Keep in Contact	Edexcel - AS	15	3
Why do endothermic reactions happen?	AQA – A2	15	4
Driven by Enthalpy	Edexcel - AS	16	1
Ironing out the problem	Edexcel - A2	16	2
A synoptic organic question	AQA - A2	16	3
Extracting chemistry with a metal	Salters (OCR) - AS	16	4
A weighty problem?	Salters (OCR) - A2	17	1
Genning up on nitrogen	AQA	17	2
Changing gear to AS	Salters (OCR) - AS	17	3
Glorious glycerol	Salters (OCR) - A2	17	4
Getting into shape with isomers	AQA - AS	18	1
Communicating chemistry	Salters (OCR) - AS	18	2
Watch your language	AQA	18	3
Sulfuric acid	Edexcel	18	4
Vitamin C	Salters (OCR) – A2	19	1
Chemistry and fireworks	Salters (OCR) – AS	19	3
Rates and catalysis	AQA	19	4

Fun with phenylethene	Salters (OCR) – AS	20	1
Calculations	Salters (OCR) – AS & A2	20	2
What comes out of your kettle?	AQA	20	4
It ain't what you do (it's the way you do it)	AQA	21	1
Structure and spectroscopy	Salters (OCR) – A2	21	2
Folic acid	Salters (OCR) – A2	21	3
Controversial chlorine	Salters (OCR) – AS	22	1
Chemistry from a natural product	Salters (OCR) – AS	22	2
Tricky transition metals	IB – Higher level	22	3
Planning for success in extended-answer questions	Salters (OCR) – AS	23	1
Absinthe: Lessons from the green fairy	Salters (OCR) – AS	23	3
Alkenes and clean screens	Salters (OCR) – AS	24	1
Examining equilibrium	Salters (OCR) – A2	24	3
Indications of change	IB – Higher level	24	4
All hail the halogens	AQA	25	3
A complex way to find nickel compounds	Salters (OCR) – A2	25	4
Focus on the basics	Salters (OCR) – A2	26	1
Wrack your brains	Salters (OCR) – AS	26	2
Not-so stainless steel	Salters (OCR) – A2	26	3
Concentrate for first-rate answers	AQA	26	4
Acids, alkalis and pH	AQA	27	1
Acetals and hemiacetals	AQA	27	3
Polymers and azo dyes	OCR – A2	28	1
Synthesis and analysis	Edexcel	28	2
Concentrate on sulfuric acid	AQA	29	1

Back page

Title	Vol.	Issue
Crystal gardens	4	1
Horse doping	4	2
Watercycle	4	3
Column chromatography	4	4
Mixing colours	4	5
The flame test	5	1
Growing a crystal tree	5	2
Chemiluminescence	5	3
Pyrrole pigments	5	4
Stained glass	5	5
Winning crystals	6	1
Salt mining	6	2
The island that time forgot	6	3
Rock 'n' roll eggs	6	4
Virtual reality	6	5
Oceans of mercury	7	1
Up in smoke	7	2
Women of achievement	7	3
Black smokers	7	4
Something lost in the translation	7	5
The welding torch	8	1
Drugs in the hay	8	2
The Meissner effect (collagen/gelatin)	8	3
Wobbly chemistry	8	4
Lac	8	5
Egyptian Blue & Nefertiti	9	1
Spiders superfibre	9	2
The Dome	9	3
Galileo thermometer	9	4
Hydrogen car	9	5
Reaching for the sky	10	1
Fire-blocking gel	10	2
A different slant on DNA	10	3
A close encounter	10	4
Thread of science	11	1
Glowing fireflies	11	2
Where there's smoke there's gravity	11	3
Displaying vision: LEP	11	4
Beyond the molecules	12	1
Microdiamonds	12	2
Sniffing for trouble	12	3
Airbags	12	4
Graphite polyhedral crystals	13	1
Life under ice	13	2
Molecules that grow on trees!	13	3
Three forms of elemental carbon	13	4
Like a diamond in the sky	14	1

Geothermal energy	14	2
Swimming in a nano sea	14	3
Brightening the future	14	4
The world's smallest test tube	15	1
Little Dragon	15	2
Iron meteorites on Mars	15	3
I'm forever blowing colourful bubbles	15	4
DNA origami	16	1
A trip to the apothecary's	16	2
Sniffer bees	16	3
Raindrops on Titan	16	4
Dragon's breath	17	1
Fireflies: a postcard from Sri Lanka	17	2
...and then the heav'n espy	17	3
Wonderful woad and incredible indigo	17	4
Chemistry detectives	18	1
Why do onions make you cry?	18	2
Dinosaur mummy	18	3
Periodic table	18	4
Face the truth	19	1
Viral DNA packaging	19	2
Quinine	19	3
PET imaging of tumours	19	4
The PET that got away	20	1
Science beats food fraud	20	2
Feeling the heat	20	3
Polymers, plastics and superglue	20	4
Gecko glue	21	1
Chemistree: food dyes	21	2
Perilous poisons	21	3
The smell of success	21	4
How hot is your chemistry?	22	1
Rat wars	22	2
You can't beat beetroot	22	3
Celebrating the double helix	22	4
Hydrogen fuel cells: Harnessing explosive energy	23	1
Burning blue	23	2
Feeling blue: Lobster rarities	23	3
Super foods	23	4
Follicle forensics	24	1
Cracking down on chemical weapons	24	2
Wake up and smell the coffee	24	3
Can we grow gold on plants?	24	4
3, 2, 1, liftoff!	25	1
Spectroscopy: At the heart of art	25	2
Colouring the dinosaurs	25	3
Lights in the deep	25	4
Seeing with chemistry	26	1
Back to Sherlock's crime scene	26	2
Life-saving viper	26	3

The two sides of thalidomide	26	4
Fuelling Formula 1	27	1
Botulinum toxin: Killer of cure?	27	2
Molecular cars	27	3
Sunshine and vitamin D	27	4
Conservation and cyclododecane	28	1
Spectroscopy of space	28	2
Valentine chemistry	28	3
The chemistry of coral bleaching	28	4
Radical clean-up	29	1
Endangered elements	29	2
For the fake of auld lang syne...	29	3
Creating the lunar seas	29	4

Chemical Heroes

Title	Vol.	Issue
A tough mistake	11	1

Chemistry in medicine

Title	Vol.	Issue
Photochemistry and drug synthesis	28	2

Chemistry on the web / Chemistry online

Title	Vol.	Issue
Webelements	6	1
Finding information about degree courses	6	2
Molecule of the Month	6	3
Chemystery	6	4
Buckminsterfullerenes	7	1
Green pages	7	2
Ring the changes with <i>Chime</i>	7	3
Life, the universe and the electron	7	4
Poison	8	1
Fire!	8	2
Green sites	9	1
The Nobel prize	9	2
A world of virtual chemistry	9	3
A site for you	9	4
Surf 'n' learn	9	5
To boldly go...	10	1
Chemistry in the shed!	10	2
Virtually isomeric	10	3
No worries!	10	4
Chocolate gingers	11	1
The virtual library	11	2
Plastastic!	11	4
Find your way with the web index	12	2
Catalysis for success!	12	3
The double helix 50 years on	12	4
Analyse this!	13	1
British Antarctic Survey	13	2
Transition metals in organic chemistry	13	4
Light: the fuel of life	14	1
Chemistry by numbers	14	2
A greener industry	14	3
Chemical role models	15	1
The science of surfing	15	2
Spectroscopy, mechanisms and calculations online	15	3
A world of science just a click away	15	4
The nano-world wide web	16	1
Practical internet	16	2
Extreme internet	16	3
Bright sites: in search of the most useful chemistry websites	16	4
Molecule of the month	17	1
The great communicator	17	2
Internet dating	17	3
Chemistry in car engines	17	4
iExperiment	18	1
Professor Dave: Youtube chemist	20	1
ChemSpider	20	4
Envirocrew.org: sustainability works	23	4

Picture it...Chemistry	24	4
Massive open online courses (Moocs)	27	1

Chemystery

Title	Vol.	Issue
The case of the missing scientist: part 1	18	1
The case of the missing scientist: part 2	18	2
The case of the missing scientist: part 3	18	3
The case of the missing scientist: part 4	18	4

Did you know?

Title	Vol.	Issue
Optical isomers and penicillin	27	1
Photoswitching isomers	28	1
Knock knock...	28	3
Scrambled scientists	29	1

Encounter

Title	Vol.	Issue
Chemical landmarks of the twentieth century	9	3
Chemistry in slow motion	9	5
A date with the high and mighty of science	10	2
Malcolm Cunnington: the man in the white coat!	10	4
How snails could help repair broken bones	12	1
Showcase Science 2005	15	2
Tracking your degree application	15	4
Fruity electricity: Grätzel solar cells	16	3
Extremophiles in New York	16	4
Two pyrones and beyond...	17	1
Call to A-level students: preparations begin for Showcase Science 2009	18	2
Rainforest chemistry: investigating the atmosphere	19	3
Cutting-edge chemistry	20	3
Polymers and tulips: a year in industry	21	1
AAAS Conference	21	2
SeXeY chemistry	22	4
Food waste: beyond the bin	23	4
The life of a first-year chemistry student	24	1
Three years or four? Completing a chemistry degree	24	3
Revising 25 years of chemistry	25	1
Preventing catastrophic climate change	25	2
Treating the AIDS epidemic	25	3
Feeding the world with chemistry	25	4
Life in undergraduate labs	26	3
Atmospheric camp at York	26	4
Science Down Under	27	2
Interview with Nobel prizewinner Bernard Feringa	27	3
Solving climate change in a week	27	4
Chemistry with altitude	28	4
The elephant in the lab	29	2
Chemistry in China	29	4

Focus on industry

Title	Vol.	Issue
Salt	6	2
Making inks stick	9	4
The perfect solution: taking catalyst recycling to a new level	17	2
Phenol	19	3
Polyamides	20	1
Kevlar and composites	20	2
Calcium carbonate (CaCO ₃)	21	1
Biotechnology	21	3
Applications in agriculture: fertilisers	22	1
Applications in agriculture: fungicides	22	2
Applications in agriculture: herbicides	22	3
Applications in agriculture: insecticides	22	4
Catalysis: heterogeneous catalysts	23	1
Applications of heterogeneous catalysts	23	2
Catalysis: homogeneous catalysts	23	3
Biotechnology in the chemical industry: biodegradable polymers	24	1
Biotechnology in the chemical industry: biofuels	24	2
Recent advances in biofuel production	24	3
Biorefineries	24	4
Copper	25	1
Titanium	25	2
Zinc	25	3
Magnesium	25	4
Colourants: Where does colour come from?	26	1
Classifying colourants by method of application	26	2
Pigments and high-tech colourants: What are the technical applications of colour?	26	3
Making paint	26	4
Squeaky clean with surfactants	27	2
Soap and other surfactants	27	3
Chemicals in cleaning	27	4
Extracting oil and gas	28	1
What happens in an oil refinery?	28	2
Cracking and related refinery processes	28	3
Fracking	28	4
Aluminium	29	1
Iron	29	
Steel	29	
Lead	29	

How chemistry works / How science works

Title	Vol.	Issue
Modelling the atom	17	1
The noble gases: not so unreactive after all	17	3
How the periodic table was born	17	4
What is everything made from?	18	3
Boyle's and Charles' laws: a load of hot air?	19	1
Peer review: avoiding media scare stories	19	2
To err is scientific	20	4
Patents: protecting your ideas	22	4
Making alkenes: the Wittig reaction	23	2
Nuclear Magnetic Resonance	24	4
Investigating the structure of nucleic acids	28	2
The future of the periodic table	28	4
Energy	29	1
The f-block elements	29	3
Fighting fallacies in chemistry communication	29	3
Myth busting	29	4

In pictures

Title	Vol.	Issue
Structure of insulin	1	1
A closer look at clay	1	2
A hydrogen plant	1	3
The work of a conservator	1	4
Models of atoms	1	5
Different forms of carbon	2	1
The Periodic Table	2	2
What happens in a Bunsen flame?	2	3
Fast & fresh (sandwiches)	2	4
From dolomite to magnesium oxide	2	5
Versatile silicones	3	1
Infrared spectrometry	3	2
Gold, frankincense and myrrh	3	3
History of the atmosphere	3	4
Chemistry can detect faulty genes	3	5
A prize collection (Nobel prize winners & stamps)	4	1
Gas chromatography	4	2
Water	4	3
Molecular fossils	4	4
The rocaglamide story	4	5
Getting your pinta from the cow	5	1
Salt of the earth	5	2
Fractional Distillation	5	3
Nobel	5	4
Nuclear magnetic resonance	5	5
First class organic chemistry	6	1
Ways of representing proteins	6	2
Chemistry in the open air	6	3
Mass spectrometry	6	4
Water treatment	6	5
A breath of fresh air	7	1
Chocolate	7	2
Challenge of materials	7	3
Thermal analysis	7	4
Seeing atoms	7	5
pH: Who needs to know	8	1
Medicines in the garden	8	2
Chemistry under the microscope	8	3
Chemistry on track	8	4
The brewer's art	8	5
Gemstones	9	1
Fireworks	9	2
Molecules of the millennium	9	3
Generating electricity	9	4
Testing air quality	9	5
Visual elements	10	1
Phosphorus	10	2

It's a chiral world!	10	3
Chemistry colour & light	10	4
Food to dye for	11	1
Antioxidants	11	2
Biodiesel	11	3
Polymer protected professionals	11	4
Dyeing hair	12	1
The barking dog	12	2
Around the world with chemistry	12	3
Modelling the double helix	12	4
Machair	13	1
The heat is on	13	3
Molecules in a virtual world	13	4
The Magnificent Seven: magic bullets of 21 st century	14	1
Science is art	14	2
Antifreeze	14	3
Magnetic resonance imaging	14	4
Probably the most important reactions in the world	15	2
Camping with chemistry	15	3
Rocks that glow in the dark	15	4
Stimulating chemistry	16	1
Copper on tap?	16	2
Seeing the nanoworld: atomic structures and reaction dynamics	17	2
Getting plastered	17	4
The disguises of carbon	18	1
Hydrogen bonds: holding the world together	18	4
The Martian poles	19	1
Atoms to patterns	19	2
Chemistry in the atmosphere	19	3
Magnetic marvel	20	2
Chemistry of the cosmos	21	3
Decoding skeletal secrets	22	1
Kevlar: miracle material	22	4
Hair-raising chemistry	23	1
X-ray eyes on a molecular world	25	1
Medicinal or murderous: Analysing a Victorian medicine cabinet	25	3
Periodic table updated	26	1
Is every snowflake unique?	26	2
Mass, moles and gas equations	26	3
Know your glassware	26	4
The chemistry behind baking	27	1
Raku pottery: Redox in action	27	3
Saving SS <i>Great Britain</i> : Redox in action	27	4
Elements of smartphones	28	1
Flying over fires	28	2
Periodic table completed?	28	3
What shape is my molecule?	28	4
Cave chemistry	29	1
The elephant's toothpaste experiment	29	2
Do you know your functional groups?	29	3

Acids and their uses	29	4
----------------------	----	---

Lab page

Title	Vol.	Issue
Recrystallisation - purification of solids	2	5
Thin-layer chromatography TLC	3	1
Making standard solutions	3	2
Using a separating funnel	3	3
Distillation	3	4
Melting point determination	3	5
Measuring pH	4	1
Extracting and studying enzymes	4	2
Measuring volume	4	3
Solvent extraction	4	4
Colorimeters	4	5
Growing crystals	5	1
Safe heating	5	2
Observing	5	3
Electrochemical cells	5	4
Steam distillation	5	5
Volumetric analysis	6	1
Testing for metal ions	6	2
Separating solids from liquids	6	4
Handling gases	6	5
Testing for gases	7	1
Measuring the boiling point of a liquid	7	5
Measuring pH	8	1
What is chromatography?	8	2
Recrystallisation	8	4
Refluxing and distillation	9	2
Calorimetry	9	4
Assessing the risks in practical work	10	1
Oxidation of alcohols	10	4
Experimental error and error analysis	11	2
Making a standard solution	12	2
Colorimetry	12	3
Observing and recording	13	1
Distillation	14	1
Not all indicators are equal	14	2
Thin layer chromatography	14	3
Melting points and boiling points	14	4
Electrode potentials	15	3
How to be a lab success: using QuickFit apparatus	16	1
How to be a lab success: titrations, crystals, separating and mixing	16	4
Identifying an unknown organic compound	17	3
Planning your own experiment	19	3
Heating under reflux	20	2
Infrared spectrometers	21	2
Flame tests and emission spectra	21	4
Recrystallisation	22	2
Determining the yield of a reaction	22	3

Performing the perfect titration	23	2
Steam distillation	23	3
Chromatography	24	3
Extracting caffeine from tea leaves	25	1
How to make skin cream	25	2
Esterification	25	3
Synthesising aspirin	26	1
Nitration of an arene	26	2
Make your own dye	26	3
Volumetric analysis	27	2
Testing turmeric	27	4
Constructing an electrochemical cell	28	4
Analysing limescale remover by acid-base titration	29	2

Making and doing

Title	Vol.	Issue
Model of buckminsterfullerene	1	1
Models of Clay	1	2
Elementary crossword	1	3
Asymmetric crystals of tartaric acid salts	1	4
Spreadsheets for calculations	1	5
Gas testing crossword	2	1
Models of zeolites	2	2
Wordsearch	2	3
Cooking with dough	2	4
Crossword	3	1
Puzzle page	3	2
Solid liquid	3	4
Model of DNA molecule	3	5
Elementary spelling	4	1
History of the Bunsen burner	4	3
Using natural dyes	4	5
Chemical definitions	5	1
Crystal-growing challenge	5	2
The sweet smell of danger	5	3
Quiz	5	4
Chemical dingbats	5	5
Polymer word search	6	1
Anagrams	6	2
Dr Beaker	6	5
Element search	7	1
Chemistry is fun	7	2
Surface tension	7	3
Logical chemistry	8	1
Neils Bohr puzzle	8	2
Gakistuf	9	1
Dr Beaker	9	2
Dr Beaker	9	4
Fun with hydrogels	10	2
3D models	10	3
Fizz: making sherbet	11	1
Calculating carbon dioxide	11	2
Popcorn explosions	12	1
Bubbles	12	3
DIY DNA	12	4
Chemical dingbats	14	1
More chemical dingbats	14	2
Inkvestigation	15	1
Chemical crossword	15	2
Chemical sudoku	15	3
Elemental sudoku	15	4
Poetic chemistry	16	1
Elementary crossword	17	1

Trace elements	17	2
Radioactive sudoku	17	3
Hydrogen bonds: experiments to try at home	18	4
Wonder in carbon land: build your own bucky balls	19	2
Numbercross	20	1
Transition metal riddles	20	3
Build your own spectroscope	21	4
Summing up fertilisers	22	1
Chemical conundrum	23	1
Elementary clues	24	1
Chemword	24	2
Isogram	25	1
Elemental acrostic	25	2
Who said that?	25	3
Molecular crossword	26	1
Chemword	26	2
Chemical vocabulary	27	2
Does warm water freeze faster than cold water?	27	3
Chemical conundrum	27	4
Systematic names	28	3
Scrambled scientists	29	1
Chemistry in knots	29	1
Mystery metal	29	3
Red cabbage indicators	29	3
Chemical crossword	29	4

People / All in a day's work / Careers in chemistry

Name	Job	Vol.	Issue
Hart, Judith	Freelance Journalist	1	3
Knight, Barry	Ancient Monument Laboratories (English Heritage)	1	4
Gregory, Peter	Senior Scientist (ICI Specialty Colours Group)	2	3
Hamer, Pam	Forensic Scientist	2	5
Senior, Clare	Analytical Chemist in Packaging Research	3	4
Crawley, Frank	Chemical Engineer (ICI, BP), Authority on safety of industrial processes	4	3
Tarasova, Natalia	Radiation Chemist, Professor of Industrial Ecology, Mendeleev University of Chemical Technology, Moscow	4	4
Hutchinson, Ann	Process Chemist (Rhone-Poulenc Agriculture)	5	1
Sutton, Jane	Press and Publicity Officer (Royal Society of Chemistry)	5	2
Osman, Robert	Plant Manager, Pigment Dispersion Plant, Yorkshire Chemicals	5	3
Owen, Nick	Innovations Marketing Manager, Hickson & Welch	5	4
Hewitt, Chris	Brand Manager, Aldrich UK	5	5
Hazel, Nick	Issues Manager, BP Chemicals	6	1
Hodgson, Anne	University Chemistry Department	6	3
Levitt, Melissa	Commissioning Editor	6	5
Hockley, Sian	Patent Agent	7	5
Julie Hall	Antarctic Research	8	2
Louise Scarry	Granular Detergent Technology	8	5
O'Brien, Peter	University Lecturer	9	3
Walker, Karen	Agrochemical Registration Specialist	9	5
Tinkler, Suzanne	Confectionery product developer	11	4
Wevill, Dave	Antarctic Survey	13	2
Barnham, Rachel	Forensic Scientist	14	3
Macdonald, Anthony	Biomedical researcher	18	4
Hardy, Jeff	UK Energy Research Centre	19	4
Davison, Rachael	Cosmetic scientist	29	2

Project page

Title	Vol.	Issue
Decomposing hydrogen peroxide	5	1
What's in water?	5	2
The reactions of metals with acids	5	3
Making light of Project work	5	4
There's more to Vitamin C than Brussels	5	5
Reactions that don't add up	6	1
Clock reactions	6	2
Aspirin	6	3
Investigating enzymes	6	4
How accurate are titrations?	7	1
What's in wine	7	3
Ion exchange resins	7	4
Oscillating reactions	8	3
Adsorption and inclusion	8	4
Concentration of copper ions	9	1
Dyes and dyeing	10	1
A Reaction that speeds itself up	11	3
Anyone for spaghetti and peas?	11	4
How quickly does bleach deteriorate?	16	3

Remember remember

Title	Vol.	Issue
Using mnemonic methods	8	1
The story system	8	2
The loci system	8	3
The peg method	8	4

Research team

Title	Vol.	Issue
Are you part of a research team?	8	1
Naphthazarin, PDT and the fight against cancer	8	2
The problem with PET	8	4
Are you part of a research team?	9	1
Nitric oxide as a synthetic reagent	9	5
Pushing back the frontiers...	10	1

Revision note

Title	Vol.	Issue
Bonding between molecules	1	1
Spectroscopy	1	2
Electrolysis	1	3
Shapes of molecules and electron pair repulsion theory	1	4
Interpreting mass spectra	1	5
What makes a reaction go?	2	1
Redox (and oxidation numbers)	2	2
Energy profiles	2	3
An overview of organic reactions	2	4
Acids	2	5
The Periodic Table	3	1
Testing for functional groups	3	2
A new angle on bonding	3	3
Solidification of solutions	3	4
Melting point determination	3	5
The transition metals	4	1
Naming aliphatic organic compounds	4	2
Keeping track of energy changes	4	5
Drawing organic compounds	5	1
Born-Haber cycles and lattice energies	5	2
Melting and boiling points	5	3
Keeping things short	5	4
Acids & bases	5	5
Acid-base indicators and buffer solutions	6	1
Ultraviolet and visible spectra	6	2
Kinetics	6	4
Group 4	6	5
Identifying gasses	7	1
Intermolecular bonds	7	2
Isomerism	7	3
Halogens	8	1
Spider diagrams	8	2
The alkanes	8	3
Changing state	9	1
Exam tactics	9	2
Transition metal complexes I	9	3
Transition metal complexes II	9	4
Organic synthetic pathways	9	5
What is isomerism?	10	3
Amines	10	4
Gases Part 1	11	1
Calculations involving masses	11	2
Gases Part 2	11	3
Trends in period 3 elements	11	4
The elements in group 2	12	2
Titrations	12	3
Nucleophiles	12	4

Moles – the basics	13	1
Calculating pH	13	2
Carboxylic acids	13	3
Establishing a rate equation	14	2
Aliphatic organic compounds	15	1
Summary of reactions for benzene/aromatic compounds	15	2
From creaking joints to saving a steamship	15	3
Bonding: sticking atoms together	16	1
Interpreting infrared spectra	16	2
Classifying organic reactions	16	3
Trends in ionisation energy	17	3
Acids and bases: a whistle-stop tour	18	2
Acids and bases: developing ideas further	18	3
Oxides of carbon	20	1
Solid foundations: part 1	21	3
Solid foundations: part 2	21	4
Tackling stretch and challenge questions	22	4
Copper sulfate and ammonia: stretch and challenge question	23	4
Understanding NMR spectra	24	4
Nucleophilic substitution	26	3
Electrophilic substitution of aromatic rings	26	4
Know your units	27	3
The continuum of bonding	28	1
Disentangling polarity	28	2
Maxwell-Boltzmann distribution curves	29	4

Scientists of substance

Title	Vol.	Issue
Mendeleev, creator of the chemists' logo	13	1
John Newlands	13	2
Harry Moseley	13	3
Fritz Haber	13	4
John Priestly	14	1
Sir William Ramsay	14	2
Sir Humphry Davy	14	4
Linus Pauling	15	1
Thomas Midgely	15	2
Gilbert N. Lewis: his acids and bases	15	3
Glenn T. Seaborg: creator of elements	15	4
Lise Meitner: radiochemist, physicist and co-discoverer of nuclear fission	16	1
Ida Tacke-Noddack: co-discoverer of rhenium and nuclear fission	16	2
Rosalind Franklin: physical chemist, X-ray crystallographer and DNA pioneer	16	3
Marguerite Perey: discoverer of francium	16	4
Organic growth from Deutsche Chemiker	17	1
More organic growth from Deutsche Chemiker: Liebig and Wöhler	17	2
Seeds of structural organic chemistry: August Kekulé	17	3
Adolf von Baeyer and Victor Meyer	17	4
Avogadro: count and counting chemist	18	1
John Dalton: Quaker scientist and law maker	18	2
van der Waals: famous for recognising feeble forces	18	3
Michael Faraday	18	4
Dorothy Crowfoot Hodgkin: great discoveries in X-ray crystallography	19	4
Carothers: inventor of nylon	20	1
Kwolek: creator of Kevlar	20	2
Benerito: the chemist who banished ironing	20	3
Marie Curie: probing the atom	21	2
The fascinating Fenton reaction	22	1
Rachel Louise Carson: Environmental champion	27	2

Substances

Title	Vol.	Issue
Tin and lead	4	1
Iodine	4	2
Methyl mercaptan	4	3
Sodium carbonate	4	4
Argon - in the spotlight	4	5
Helium	5	1
Platinum	5	2
Nitric Acid	5	3
Propanone	5	4
Iodine	5	5
Hydrogen peroxide	6	1
Alumina	6	2
Silica	6	3
Nitric oxide	6	4
Mixed oxides	6	5
Chlorides	7	1
Potassium chloride	7	2
Aluminium chloride	7	3
Cl ₄ and SiCl ₄ ⁺	7	4
HCl	7	5
Butane	8	3
Ethanoic acid	8	4
Phenol	8	5
Aluminium	9	2
Caesium	9	3
Sulfur	9	4
Cyanides	10	1
Chlorine	10	2
A bitter isomerisation	10	3
Carbon monoxide	10	4
Strontium	11	1
Gallium	11	2
Selenium	11	3
Hydrogen	12	1
Chromium	12	3
Bromine	12	4
Hydrogen sulfide	13	1
Titanium	13	3
Nitrogen oxides	14	1
Ozone	14	2
Carbohydrates	14	4
Carboxylic acids	15	1
Hydrogen: alkali metal or halogen?	15	2
Lithium	15	3
Supercritical carbon dioxide	16	3
Silicones and silanes	16	4
Platinum: not just for jewellery	17	4

The fight against bacteria: every cloud has a silver lining	18	1
Deadly beauty	18	3
Finding a fix	19	1
Graphene	19	2
Vanadium	19	4
Calcium carbonate	20	3
Water water everywhere	20	4
Iridium: life-saving transition element	21	2
Cocaine: atoms of addiction	21	3
Aerogel: 'frozen smoke'	21	4
Tetrodotoxin: famously deadly poison	22	2
All things ice	22	3
Iodine in medicine	23	1
Magnesium	23	3
Looking into glass	23	4
Hydrogen cyanide: Poison and precursor	25	2
Barium	25	4
Analgesics	27	1
Turmeric: Medicinal applications	27	4
Sugar: A bittersweet tale?	29	4

Top tips

Title	Vol.	Issue
Getting the language right	7	1
Oxidation states	7	2
The shapes of molecules	7	3
Calculations involving amounts	8	1
Identifying reactions (1)	8	4
Identifying reactions (2)	8	5
Calculating yields in chemical reactions	9	2
Drawing enthalpy cycles	9	3
Interpreting mass spectra	10	1
Interpreting NMR spectra	10	2
Writing structural isomers using stick formulae	10	3
Tackling chemical calculations	10	4
Know your Ks	11	4
Understanding electrode potentials	12	1
Using electrode potentials	12	2
Balancing equations	12	3
Using oxidation states	12	4
Van der Waals Forces	13	1
Classifying organic reactions	13	2
Measuring the rate of a chemical reaction	14	1
Born Haber Cycles	14	4
What's in a word?	15	1
Watch your language!	15	2
Hess's Law	15	4
Guidelines for drawing organic structures	16	1
Shapes in inorganic chemistry	16	2
Drawing lab diagrams	16	4
Representing chemical reactions	17	1
Drawing reaction mechanisms	18	1
Drawing radical reaction mechanisms	18	2
Atom economy: avoiding chemical waste	19	2
Naming esters	19	3
Tracking your degree application	19	4
Making use of electrode potentials	22	3
Hess cycles and the MASK check	24	2
Amino acids in chemistry	25	2
Succeeding in chemistry without A-level maths	25	4
Dealing with significant figures	26	1
Esterification mechanisms	27	3
Naming (<i>R/S</i>) isomers	29	3

Wonders of chemistry

Title	Vol.	Issue
Liquid breathing	11	1
Paved with titanium	11	2
Saving reefs from grief	11	3
Self-healing plastic	11	4
Windows that clean themselves	12	2
Twenty-first century batteries	12	4
Seeing with selenium	13	2
Solution to a sticky problem: non-drip ice-lollies	13	3
Tougher than a speeding bullet	13	4
The future's bright, the future's ...tritium	14	2
Luminol: shedding the light on 'hidden' evidence	14	3
Potty power: microbial fuel cells	14	4
Cracking concrete heals itself	21	1
Molybdenite Valley? The search for new semiconductors	22	2
Won't you step into my parlour...spider silk	23	2
Molecules of revision	23	4
Graphene and carbon nanotubes	24	1
The jeans that eat pollution	24	2
Lyotropic liquid crystals: essential for life	24	3
X-rays reveal a lost treasure	25	2
Solar power: nature does it better	28	1
Elements old and new	28	3
Chameleon colour changes	29	2
Recharging the batteries	29	3

Worth reading

Title	Vol.	Issue
Molecules at an Exhibition	8	4
Nitroglycerine	9	2
The Shocking History of Phosphorus: a biography of the Devil's element	10	2
The X-ray detective	11	1
Science, not art: ten scientists' diaries	14	1
Uncle Tungsten	14	4
Better Looking, Better Living, Better Loving: How chemistry can help you achieve life's goals	17	2
Eurekas and Euphorias: The Oxford Book of Scientific Anecdotes	18	3
Max Perutz and the Secret of Life	18	4
Chemistry ³ : introducing inorganic, organic and physical chemistry	19	2
A Healthy, Wealthy, Sustainable World	20	4
The Elements – a very short introduction	21	1
Nature's Building Blocks (2 nd edition)	21	2
Molecules with Silly or Unusual Names	21	4
Breverton's Encyclopedia of Inventions	22	2
30-Second Elements	22	3
Every Molecule Tells a Story	24	2
Molecules That Amaze Us	25	3
The Sun and moons	27	1
The Disappearing Spoon	28	1
Periodic Tales: the Curious Lives of the Elements	28	3
Reactions: the Private Life of Atoms	28	4

Themed articles (one-off series)

Title		Vol.	Issue
Chemistry and the environment	Nitrogen and phosphorus in estuaries	7	1
	Mountains of waste	7	2
	SO ₂ and acid rain	7	3
	Climate change and CO ₂	7	4
	Tracing oil spills at sea	7	5
Chemistry and health	Quinine – one of the great molecules	8	1
	Metals in medicine	8	2
	Body parts from the polymer lab	8	3
	The discovery of Ventolin	8	4
Green chemistry	Catalysts	9	1
	Green beans?	9	2
	Environmental solutions	9	3
	Plants of the future	9	4
	Atom efficiency and catalysis	9	5
Chemistry in space	DIBs: a great unsolved mystery	10	1
	What a dusty universe!	10	2
	Space: the first and last great brewery	10	3
	Beagle 2: looking to explore a blurred vision of life on Mars	10	4
A taste for chemistry	Cool chemistry: what's in an ice cream?	11	1
	Cooked to a turn! Non-enzymic browning in food	11	2
	A root to white sugar: how to turn a plant into something sweet	11	3
	Understanding cocoa flavour	11	4
Chemistry everywhere	Curly locks	12	1
	Roast beef and ashes to vegetarian shampoo	12	2
	All you should know about dough	12	3
	The ultra-blue: the story of ultramarine	12	4
Forensic chemistry	The chemistry of fingerprints	13	1
	Resurrecting the past	13	2
	Behind the scenes at the National Gallery	13	3
	Drugs on money	13	4
Fuelling the future	Electricity generation	14	1
	Electricity, the next generation	14	2
	Driving towards a cleaner future	14	3
	Global impact of fuels	14	4
Sporting chemistry	Performance fuel for people	15	1
	Chemistry has the right fibre for sporting glory	15	2
	Designer magic sponges	15	3
	Catching the cheats: detecting drugs in sport	15	4
Nanotechnology	Nanochemistry: delivering new medicines?	16	1
	Nanotechnologists inspired by nature: building new model enzymes	16	2
	Liquid crystals: the fourth state of matter	16	3
	When superconductors get crabby	16	4
Chemistry and climate	Natural climate variability	17	1

	The Antarctic ozone hole	17	2
	The benefits of bracing sea air	17	3
	The chemistry of indoor air	17	4
Medicinal chemistry	Precious medicines	18	1
	Don't hold your breath: the diagnostic potential of breath analysis	18	2
	Curing cancer with chemistry	18	3
	Salbutamol: saving your breath	18	4
Design for the future	The polymer predicament: making plastics from plants	19	1
	Biocatalysis	19	2
	Lab on a chip	19	3
	LEDs: light fantastic	19	4
Out of thin air	From volcanoes to sea salt: atmospheric sulfur	20	1
	Atmospheric nitrogen	20	2
	Poison in the air: atmospheric carbon monoxide	20	3
	Do ants destroy the ozone layer?	20	4
What's your poison?	Cuppa chemistry	21	1
	Chemistry of wine	21	2
	Biochemistry, brewing and beery scientists	21	3
	A mug of coffee and chemistry	21	4
Lifestyle chemistry	Chemistry's calling: mobile phones and touchscreen technology	22	1
	Curried chemistry	22	2
	Two in one: the chemistry of shampoo and conditioner	22	3
	Shades of chemistry	22	4
Greener and cleaner	Artificial photosynthesis: putting sunshine in the tank	23	1
	Reclaiming plastic waste	23	2
	What can we make from carbon dioxide?	23	3
	Biocatalysis in biosolvents	23	4
Chemistry in medicine	Developing and delivering drugs	24	1
	Mind-numbing drugs	24	2
	Fighting mental illness	24	3
	Viral chemistry	24	4
25 years of...	Gel chemistry: From jellies to 3D printing	25	1
	Retrosynthesis	25	2
	Carbene chemistry	25	3
	FT-NMR	25	4
Energy and efficiency	The chemistry of LEDs	26	1
	Shining a light on solar energy	26	2
	Batteries required: Advances in energy storage	26	3
	Fuel from sunshine	26	4
Wonder bugs	Landmine-detecting bacteria	27	1
	Plastic-eating bacteria	27	2
	Microbial medicine factories	27	3
	New fuels from nature	27	4
Animal chemistry	Bees, honey and venom	28	1
	Frogs and toads	28	2
	Cats and dogs	28	3

	Spiders	28	4
A brief history of...	Atomic structure: Part 1	29	1
	Atomic structure: Part 2	29	2
	The chemistry of nuclear energy	29	4