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which is often used in
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right-handed molecules.***

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Proceedings. 178th
Symposium of the
International Astronomical
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1 - 5 Jul 1996. van Dishoeck,
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Conformational Isomerization
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where you are. \$\\endgroup\$ -
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infrared telescopes can***

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gather light from the molecules they want to identify; but I'm still a bit curious about how they manage to gather light only from specific molecules from such a distance.

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explores innovations and trends in the field that are enabling the synthesis of new types of small-molecule probes and drugs. This perspective article frames the research described in the special issue but also

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***explores how these modern
capabilities can both ...***

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astrophysics, developed into a rigorous field of investigation by theoretical astrochemist Alexander Dalgarno beginning in 1967, concerns the study of emission from molecules in space. There are 110

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currently known interstellar molecules. These molecules have large numbers of observable transitions.

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***Probes And Processes
Reviews Molecules group of
two or more atoms that form
the smallest Molecules in
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Processes unit into which a
pure substance can be
divided and still retain the***

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composition and chemical properties of that substance. The division of a sample of a substance into progressively

Molecules pictured changing shape as they gain and lose

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Molecules with several flexible coordinates have potential energy surfaces with a large number of minima and many transition states separating them. A general experimental protocol is described that is capable of

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studying conformational isomerization in such circumstances, measuring the product quantum yields following conformation-specific infrared excitation, and measuring energy thresholds ...

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do space probes identify ...
Now, a new study published
in Chemical Science describes
an innovative approach for
identifying molecules that can
help track the progression of***

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Parkinson's disease.

Conducted by researchers in

...

Single Molecules —

Department of Physics

***A molecule is an electrically
neutral group of two or more***

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atoms held together by chemical bonds. Molecules are distinguished from ions by their lack of electrical charge.. In quantum physics, organic chemistry, and biochemistry, the distinction from ions is dropped and

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molecule is often used when referring to polyatomic ions.. In the kinetic theory of gases, the term molecule is often used ...

Organic synthesis toward small-molecule probes and

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drugs ...

***With ultracold chemistry, Ni,
the Morris Kahn Associate
Professor of Chemistry and
Chemical Biology and of
Physics, and her team cooled
two potassium-rubidium
molecules to just above***

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absolute zero and found the “intermediate,” the space where reactants transform into products, lived for about 360 nanoseconds (almost a million times longer than they live in higher-temperature reactions).

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FeH are suited to probe stellar magnetic fields, each one for a different range of spectral types, by considering the signal that is obtained from modeling various spectral types.

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missing molecules - Harvard
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***If the surrounding molecules
are in an ordered phase, the
probe, like the nearby
molecules, is fixed. Credit:
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chromophore for the detection of biothiols has been developed, exhibiting high selectivity towards biothiols over other interfering species. NRSH shows a blue shift in absorption peak upon

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reacting with biothiols, from 587 nm to 567 nm, which induces an obvious color change from blue to pink and exhibits a 35-fold fluorescence ...

Molecule - Wikipedia

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Figure 1: Experiments with ultracold molecules probe chemical reactions in a completely new, previously unattainable, temperature regime, where the translational energy of molecules is much smaller

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than the energy of hyperfine interactions and the de Broglie wavelength of molecules is much larger than the typical size of molecules. The scale above shows the de Broglie wavelength of Cs 2 ...

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***Molecules in astrophysics:
probes and processes ...
Astrochemistry comprises
observations, theory and
experiments aimed at
interpreting molecular
emission patterns in space.
The chemistry of the***

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interstellar medium strongly depends on the local density, temperature, ionization and radiation conditions and molecules with a well-understood chemistry can therefore be used as probes of astrophysical phenomena.

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as shown below a photon of
excitation light is absorbed by
an electron of***

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