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S-centered Radicals
deals with the organic
radicals containing
sulfur atoms, RS^* ,
 RSO^* , RSO_2^* and
 R_3S and the inorganic

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radicals, *SH and SO_x*. This is the book to bring together all the recent developments of S-centered radical chemistry. This area is extremely important to organic synthetic chemists and environmentalists.

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Stability of inorganic radicals. The inorganic

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compound nitric oxide
(NO) is a stable radical.
Fremy's salt
(Potassium
nitrosodisulfonate,
(KSO₃)₂NO) is a
related example. There
are also hundreds of
examples of thiazyl
radicals, despite
limited extent of π
resonance
stabilization.. Radicals
form by breaking of
covalent bonds by
homolysis. The
homolytic bond

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dissociation energies,
usually ...

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Spin trapping of O-, C-, and S-centered radicals and peroxyxynitrite by 2H-imidazole-1-oxides. Dikalov S(1), Kirilyuk I, Grigor'ev I. Author information:
(1)Institute of Chemical Kinetics and

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Combustion, Institute
of Organic Chemistry,
Novosibirsk, Russia.

Spin trapping of O-, C-, and S-centered radicals and ...

The chemical roles of
the 5'-deoxyadenosyl
radical and other
carbon-centered
radicals at the active
site of dioldehydrase
(DDH) Figure 3. The
carbon-centered
radical mechanism in
the interconversion of

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lysine and β -lysine by
lysine
2,3-aminomutase
Figure 4. Homolytic
cleavage of the S-C5'
bond in
adenosylmethionine to
5'-dAdo . radical

A confluence of radical chemistry: S- Adenosylmethionine

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Jan Berenstein, free radicals in chemistry biology and medicine radicals are either strong ooh or moderately good oxidants except o 2 o which itself is a moderate reductant in recent years s centered radicals have attracted considerable attention in

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Radical, in chemistry, molecule that contains at least one unpaired electron. Most molecules contain even numbers of electrons, and the covalent chemical bonds holding the atoms together within a molecule normally consist of pairs of electrons jointly shared by the atoms linked by the bond. Most r

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many diseases such as
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myocardial infarction
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Free radicals play an important role in combustion, atmospheric chemistry, polymerization, plasma chemistry, biochemistry, and many other chemical processes. In living organisms, the free radicals superoxide and nitric oxide and

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their reaction products regulate many processes, such as control of vascular tone and thus blood pressure.

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Over the last thirty years organic azides have drawn a great deal of attention as radical traps for carbon- and heteroatom-centered

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radicals, both in intra- and in intermolecular processes. The resulting intermediates (nitrogen-centered radicals such as triazenyls, aminyls, or even iminyls) can be conveniently employed in the synthesis of a variety of cyclic and acyclic nitrogen ...

**From Azides to
Nitrogen-Centered
Radicals:
Applications of ...**

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Recently, photoredox-catalyzed C-S/P-S bond formation via the generation of sulfur centered radicals has been studied extensively. In the photoredox catalytic process, a variety of S-H, S-S, S-C, S-N, and S-X (F, Cl, Br, I) bonds, and even active sulfone-containing skeletons can be easily transformed into the corresponding thioyl/sulfonyl radicals.

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Recent advances in photocatalytic C-S/P-S bond formation ...

Sulfate radicals ($\text{SO}_4^{\cdot-}$) were generated by the photodissociation of peroxodisulfate anions ($\text{S}_2\text{O}_8^{2-}$) induced by nanosecond 355 nm laser pulse (Equation 1) (). The photodissociation of $\text{S}_2\text{O}_8^{2-}$ is rapid, and all $\text{SO}_4^{\cdot-}$ radicals are generated within the

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~14 ns laser pulse
duration. If excess Cl –
or Br – is present, then
the SO₄ –• radicals
are converted into Cl₂
...

Sulfur-centered hemi-bond radicals as active intermediates ...

We report the first
indirect observation
and use of boron
vertex-centered
carboranyl radicals
generated by the

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oxidation of modified carboranyl precursors. These radical intermediates are formed by the direct oxidation of a B-B bond between a boron cluster cage and an exopolyhedral boron-based substituent (e.g., $-\text{BF}_3\text{K}$, $-\text{B}(\text{OH})_2$). The in situ generated radical species are shown to be ...

Oxidative Generation of Boron-

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Chemistry of thiyl
radicals .

Intramolecular addition
to aromatic rings.

Reversible

intramolecular

hydrogen transfer in
peptides. ...

Stabilization of sulfur-
centered radical
cations. Reactions of H-
atoms with proteins
containing methionine.

Disulfides . S-S bond
mesolysis in aromatic

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Chemistry of Sulfur- Centered Radicals | Recent Trends in ...

Problems associated with such an approach are the general high reactivity of N-radicals and the lack of methods for clean and mild generation of N-centered radicals. 1 - 8 Over the past few years, photoredox catalysis has significantly

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contributed to the further development of the area of free-radical chemistry. 9 - 13 Not surprisingly, also reports focusing on the generation of N-centered ...

Chemistry With N-Centered Radicals Generated by Single ...

Radicals play a major role as intermediates in many chemical reactions. They

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contribute to transformations in the atmosphere, living organisms, chemical synthesis, combustion and detonation amongst others. This comprehensive and conclusive book discusses all these aspects. N-centered Radicals deals with NO_x and NCO, relatively stable radicals whose presence in the atmosphere influences

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