Supplementary Material 1. Full search strategy

Pubmed

(Artificial intelligence[Title/Abstract] OR machine learning[Title/Abstract] OR deep learning[Title/Abstract]) AND (MRI[Title/Abstract] OR magnetic resonance imaging[Title/Abstract] OR CT[Title/Abstract] OR computed tomography[Title/Abstract] OR radiology[Title/Abstract]) AND (Sustainab*[Title/Abstract] OR green[Title/Abstract] OR carbon[Title/Abstract] OR energy[Title/Abstract])

963 results

Date: June 12, 2026

Limits: Publication date: January 2020 – June 2026; Language: English; Full-text availability.

Field tags: Title and abstract

Controlled vocabulary: MeSH terms

Google Scholar

AI OR machine learning OR deep learning AND MRI OR magnetic resonance imaging OR CT OR computed tomography OR radio* AND Sustainab* OR green OR carbon OR energy

First 200 results

Date: June 12, 2026

Limits: Publication date: January 2020 – June 2026; Language: English; Full-text availability.

Field tags: Title and abstract

Controlled vocabulary: None

medRxiv

(AI OR machine learning OR deep learning) AND (MRI OR magnetic resonance imaging OR CT OR computed tomography OR radio*) AND (Sustainab* OR green OR carbon OR energy)

1896 results

Date: June 12, 2026

Limits: Publication date: January 2020 – June 2026; Language: English; Full-text availability.

Field tags: Title and abstract

Controlled vocabulary: None

Cochrane Library

Artificial intelligence OR machine learning OR deep learning AND MRI OR magnetic resonance imaging OR CT OR computed tomography OR radiology AND Sustainability OR green OR carbon OR energy

76190 results

Date: June 12, 2026

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Field tags: Title and abstract

Controlled vocabulary: MeSH terms

Wiley Online

AI OR machine learning OR deep learning AND MRI OR magnetic resonance imaging OR CT OR computed tomography OR radio* AND Sustainab* OR green OR carbon OR energy (Context search: title)

7 results

AI OR machine learning OR deep learning AND MRI OR magnetic resonance imaging OR CT OR computed tomography OR radio* AND Sustainab* OR green OR carbon OR energy (Context search: abstract)

220 results

Date: June 12, 2026

Limits: Publication date: January 2020 – June 2026; Language: English; Full-text availability.

Field tags: Title and abstract

Controlled vocabulary: None

Embase

AI or machine learning or deep learning and MRI or magnetic resonance imaging or CT or computed tomography or radio* and Sustainab* or green or carbon or energy

2277 results

Date: June 12, 2026

Limits: Publication date: January 2020 – June 2026; Language: English; Full-text availability.

Field tags: Title and abstract

Controlled vocabulary: Emtree

Web of Science

AI or machine learning or deep learning and MRI or magnetic resonance imaging or CT or computed tomography or radio* and Sustainab* or green or carbon or energy

3452 results

Date: June 12, 2026

Limits: Publication date: January 2020 – June 2026; Language: English; Full-text availability; Web of Science category: Radiology Nuclear Medicine Medical Imaging.

Field tags: Title and abstract

Controlled vocabulary: None

CINAHL ultimate

AI or machine learning or deep learning and MRI or magnetic resonance imaging or CT or computed tomography or radio* and Sustainab* or green or carbon or energy

1923 results

Date: June 12, 2026

Limits: Publication date: January 2020 – June 2026; Language: English; Full-text availability.

Field tags: Title and abstract

Controlled vocabulary: CINAHL headings