Scientific Articles Repository Database Design

Entities

- 1. Article:
 - Attributes: ArticleID (PK), Title, Abstract, PublicationDate, DOI, Keywords.
- 2. Author:
 - Attributes: AuthorID (PK), Name, Affiliation, Email, ORCID.
- 3. Topic:
 - Attributes: TopicID (PK), Name, Description.
- 4. Journal:
 - Attributes: JournalID (PK), Name, ISSN, Publisher.
- 5. Review:
 - Attributes: ReviewID (PK), ArticleID (FK), ReviewerID (FK), Date, Content, Recommendation.
- 6. Reviewer:
 - Attributes: ReviewerID (PK), Name, Affiliation, Expertise.
- 7. Citation:
 - Attributes: CitationID (PK), CitingArticleID (FK), CitedArticleID (FK).
- 8. User:
 - Attributes: UserID (PK), Name, Email, Affiliation, Interests.
- 9. Download:
 - Attributes: DownloadID (PK), ArticleID (FK), UserID (FK), Date.
- 10. Comment:
 - Attributes: CommentID (PK), ArticleID (FK), UserID (FK), Content, Date.

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Relationships

- 1. Authors write Articles: Many-to-Many.
- 2. Articles belong to Topics: Many-to-One.
- 3. Articles published in Journals: Many-to-One.
- 4. Reviewers review Articles: Many-to-Many.
- 5. Articles cite Articles: Many-to-Many.
- 6. Users download Articles: Many-to-Many.
- 7. Users comment on Articles: Many-to-Many.
- 8. Articles categorized under Journals: One-to-Many (Correction: Duplicate of 3, ignore).