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**M. Sc. Chemistry II semester
Review Writing**

Research

- ✓ Selection of Topic
- ✓ Guide and Scholar
- ✓ Field/Lab Work
- ✓ Synopsis
- ✓ Dissertation
 - ✓ Introduction.....?
 - ✓ Chapters/Parts-Sections
 - ✓ Submission
 - ✓ Reports
- ✓ Viva-Voce

□ Scientific Writing based on Research

□ Articles

- Letters

- Short Communications

- Communications

- Digest Article

- Papers

- Feature article

- Full length Article/Full Paper

□ Reviews

Tips for Effective Preparation of Scientific Reviews: Sharing Experience*



Why required? Or About Review article

A critical, constructive analysis of literature in a specific field through summary, classification, analysis and comparison

Functions:

- To Organize literature
- To evaluate literature
- To identify patterns and trends in literature
- To identify research gaps & recommend
new research areas

Audience:

- experts in specific research area
- students or novice researchers
- decision makers

Compilation/Collective material of the subject

Thorough literature of the topic

Significance of the thrust area

Materials.....for drug delivery.....sensors....fuel cells.....water
splitting.....organic transformations (Catalysis)

FerritesMaterials....applications....Ferrite nanoparticles
in catalysis.....

Bioorganic....Biosensors....DNA-structure and function....
genomics.....proteomics.....Micro-RNA....Receptor
Proteins....Cell signaling.... Peptides.....Nucleic acid
and Nucleotides

Medicinal.....

General Chemistry.....Homogeneous and Heterogeneous Catalysis.....

Ionic Liquids

Multi-component reactions

Diterpenoids, steroids, alkaloids.....flavones

Coupling Reactions

Named reactions...rearrangements

Specific catalyst...molecules...natural products...drugs
macrolides...

Coordination Chemistry....metal complexes....

polyoxometallates....

Supramolecular Chemistry.....etc

Focus on single component.....sub-
component

Top Journals with Impact factor (2014)

CA-CANCER J CLIN	115.84
NEW ENGL J MED	55.873
CHEM REV	46.568
LANCET	45.217
NAT REV DRUG DISCOV	41.908
NAT BIOTECHNOL	41.514
NATURE	41.456
ANNU REV IMMUNOL	39.327
NAT REV MOL CELL BIO	37.806
NAT REV CANCER	37.4
NAT REV GENET	36.978
NAT MATER	36.503
JAMA-J AM MED ASSOC	35.289
NAT REV IMMUNOL	34.985
NAT NANOTECHNOL	34.048
SCIENCE	33.611
CHEM SOC REV	33.383
ANNU REV ASTRON ASTR	33.346
NAT PHOTONICS	32.386
CELL	32.242
NAT METHODS	32.072
NAT REV NEUROSCI	31.427

ANNU REV BIOCHEM	30.283
REV MOD PHYS	29.604
NAT GENET	29.352
PROG MATER SCI	27.417
NAT MED	27.363
PHYSIOL REV	27.324
PROG POLYM SCI	26.932
NAT CHEM	25.325
LANCET ONCOL	24.69
NAT REV MICROBIOL	23.574
CANCER CELL	23.523
ANNU REV PLANT BIOL	23.3
LANCET INFECT DIS	22.433
ACCOUNTS CHEM RES	22.323
CELL STEM CELL	22.268
TRENDS COGN SCI	21.965
LANCET NEUROL	21.896
ANNU REV PSYCHOL	21.81
IMMUNITY	21.561
ENDOCR REV	21.059
ADV PHYS	20.833
BEHAV BRAIN SCI	20.771

Publishers

American Chemical Society

American Physical Society

American Association for the Advancement of Science

Wiley-VCH

Elsevier

Springer

Taylor and Francis

Nature Publishing Group

Bentham

and many more.....

Special Review Journals.....

ADV DRUG DELIVER REV	15.038
AGEING RES REV	4.94
AIDS REV	3.787
ANNU REV ANAL CHEM	8.833
ANNU REV ASTRON ASTR	33.346
ANNU REV BIOCHEM	33.283
ANNU REV BIOMED ENG	14.211
ANNU REV BIOPHYS	15.436
ANNU REV CELL DEV BI	16.66
ANNU REV CHEM BIOMOL	8.676
ANNU REV CLIN PSYCHO	12.674
ANNU REV CONDEN MA P	14.786
ANNU REV EARTH PL SC	8.582
ANNU REV ECOL EVOL S	10.562

Special Review Journals.....

ANNU REV ENTOMOL	13.731
ANNU REV ENV RESOUR	5.892
ANNU REV FLUID MECH	11.163
ANNU REV FOOD SCI T	6.289
ANNU REV GENET	15.724
ANNU REV GENOM HUM G	8.957
ANNU REV IMMUNOL	39.327
ANNU REV MAR SCI	14.356
ANNU REV MATER RES	11.854
ANNU REV MED	12.928
ANNU REV MICROBIOL	12.182

Special Review Journals.....

ANNU REV NEUROSCI	19.32
ANNU REV NUCL PART S	11.256
ANNU REV NUTR	8.359
ANNU REV PATHOL-MECH	18.75
ANNU REV PHARMACOL	18.365
ANNU REV PHYS CHEM	16.842
ANNU REV PHYSIOL	18.51
ANNU REV PHYTOPATHOL	9.62
ANNU REV PLANT BIOL	23.3
ANNU REV PSYCHOL	21.81
ANNU REV PUBL HEALTH	6.469
APPL SPECTROSC REV	4.27
ASTRON ASTROPHYS REV	17.737

Special Review Journals.....

AUTOIMMUN REV	7.933
BBA-REV CANCER	7.845
BLOOD REV	5.565
CANCER TREAT REV	7.588
CATAL REV	8.471
CHEM REV	46.568
CHEM SOC REV	33.383
CLIN MICROBIOL REV	17.406
COORDIN CHEM REV	12.239
CRIT REV BIOCHEM MOL	7.714
CRIT REV BIOTECHNOL	7.178
CRIT REV CL LAB SCI	3.692
CRIT REV ENV SCI TEC	3.468

Special Review Journals.....

CRIT REV EUKAR GENE	1.571
CRIT REV FOOD SCI	5.176
CRIT REV IMMUNOL	3.698
CRIT REV MICROBIOL	6.02
CRIT REV ONCOL HEMAT	4.027
CRIT REV PLANT SCI	5.442
CRIT REV SOLID STATE	6.45
CRIT REV THER DRUG	4.259
CRIT REV TOXICOL	5.097
DRUG METAB REV	5.356
EARTH-SCI REV	7.885
ENDOCR REV	21.059
ENVIRON REV	3.00

Special Review Journals.....

IMMUNOL REV	10.12
INT MATER REV	8.5
INT REV CEL MOL BIO	3.419
INT REV IMMUNOL	4.103
INT REV PHYS CHEM	7.034
LASER PHOTONICS REV	8.008
LIVING REV SOL PHYS	17.636
MASS SPECTROM REV	7.709
MED RES REV	8.431
MINI-REV MED CHEM	2.903
MUTAT RES-REV MUTAT	6.213
PHARMACOL REV	17.099
PHYS LIFE REV	7.478
NAT REV CANCER	37.4

Special Review Journals.....

NAT REV CARDIOL	9.183
NAT REV CLIN ONCOL	14.18
NAT REV DRUG DISCOV	41.908
NAT REV ENDOCRINOL	13.281
NAT REV GASTRO HEPAT	12.61
NAT REV GENET	36.978
NAT REV IMMUNOL	34.985
NAT REV MICROBIOL	23.574
NAT REV MOL CELL BIO	37.806
NAT REV NEPHROL	8.542
NAT REV NEUROL	15.358
NAT REV NEUROSCI	31.427
NAT REV RHEUMATOL	9.845
NAT REV UROL	4.84

Special Review Journals.....

PHYS REV A	2.808
PHYS REV B	3.736
PHYS REV C	3.733
PHYS REV D	4.643
PHYS REV E	2.288
PHYS REV LETT	7.512
PHYS REV X	9.043
PHYSIOL REV	27.324
Q REV BIOL	4.889
Q REV BIOPHYS	7.81
REV MOD PHYS	29.604

Accounts.....

Reports.....

Updates.....

Mini-Reviews...

Journals with some review articles.....

Types of review articles.....

- Tutorial Review
- Mini-Reviews
- Perspectives
- Regular Review Article

Review Article.....Publication

Types

□ **Invited Reviews (invitation):** Experienced Researchers

are invited

□ **Unsolicited submissions (Submission):** Researchers

develop an idea for a review and submit it to journal

editors

Invitation

09-Jun-2016

<http://explore.tandfonline.com/content/med/medicine-hub/expert-collection/expert-opinion>

2014 ISI Impact Factor: 4.297

Dear Dr Shingate,

I would like to introduce myself as the Commissioning Editor of Expert Opinion On Therapeutic Patents.

Would you be interested in preparing a review article entitled "Novel anti-tuberculosis compounds: a review of recent patent literature (2014-2016)" (~4000 words) for Expert Opinion On Therapeutic Patents?

The journal provides analysis of therapeutically-promising pharmaceutical patents in light of relevant scientific literature. Articles are written from a scientific perspective on compounds at the pre-clinical stage of development. They aim to discuss the current scientific knowledge of these compounds and to critically extract the relevance and impact of corresponding patents. You are an expert in this field and our readers would be very interested in your Expert Opinion on the subject. Indeed, a key aspect of all reviews we publish is the author's personal opinion of the area under discussion.

Review Article.....

Submission.....

Requires.....

Expertise in the field

- Selection of thrust area for review preparation

- Thorough Literature Survey

- Segregation

- Work on the selected area

- Publications on the selected area

- Types of publications.....Peer reviewed journals

Review Article.....Publication

Types

- **Invited Reviews (invitation):** Experienced Researchers

are invited

- **Unsolicited submissions (Submission):** Researchers

develop an idea for a review and submit it to journal

editors

Review Article.....

□ Submission.....

□ Requires.....

- Preparation of Proposal
- Outline
- Proposed title of the review
- General/Specific audience
- Brief Introduction and significance of the topic
- Captions and sub-captions/points and sub-points with citations
- References (Few and recent)

Review Article.....

Submission.....

Requires.....

- List of Previous Reviews of the Subject
- List of Previous Books/Book Chapter of the Subject
- An estimate number of references
- An estimate number of pages
- Tentative submittal date
- Brief scientific contribution of author(s)

Own Experience

CHEMICAL REVIEWS

Review

pubs.acs.org/CR

A Concise Account of Various Approaches for Stereoselective Construction of the C-20(H) Stereogenic Center in Steroid Side Chain

Bapurao B. Shingate^{*,†,‡} and Braja G. Hazra^{*,‡}

[†]Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431 004, India

[‡]Division of Organic Chemistry, National Chemical Laboratory, Pune 411 008, India



Chem. Rev. 2014, 114, 6349–6382

Impact factor: **46.568**

Inspiration and Motivation

Idols from the Science Community

Comprehensive literature Survey...topic

Sci-finder

Scopus

Web of Science

Reaxys

Each Publisher.....journals

Books...

❑ Separation of Literature

❑ Caption wise and sub-caption wise

Preparation of Manuscript:

- Plagiarism

- Language

- Grammar

❑ Preparation of Manuscript:

- ❑ **Title:** helping readers to decide whether they should read the text or not
- ❑ **Authors:** Authorship
 - Order of authors
 - Affiliation/contact information
- ❑ **Abstract:** main objectives
- ❑ **Introduction:** Effective, background, motivation of review, significance, paragraphs, approach, organization of the text
10-20% of the core text (introduction, body, conclusions)

Preparation of Manuscript:

- **Main text of the review article:** Captions (headings),
sub-captions (subheadings reflects
the organization of the topic
paragraph-several studies
Link
Tense
Citations
70-90% of the core text
Own contribution

Preparation of Manuscript:

- ❑ **Conclusion/Summary/future perspectives:** Answer the research question
set in the introduction
implications of the findings
identification of unresolved questions
5-10% of the core text
- ❑ **Acknowledgements:** Peoples, funding organization-program-grant number
- ❑ **Abbreviations**
- ❑ **References:** Journal style
- ❑ **Biography:** Author(s) brief resume

After.....

Submission.....

Acceptance.....

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Editor only.....

Response to Decision Letter.....

Submission.....

After.....

Submission.....

Acceptance.....Major/Minor,,,,,Reviewers

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Center

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ACS Publications
High quality. High impact.

Title: Steroid Studies. VI.1 Studies on the Constitution of Sargasterol

Author: Kyosuke Tsuda, Ryoichi Hayatsu, Yukichi Kishida, and Saburo Akagi

Publication: Journal of the American Chemical Society

Publisher: American Chemical Society

Date: Feb 1, 1958

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After.....

Submission.....

Acceptance.....

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Response to Decision Letter.....

Final acceptance.....

Proof.....

Accepted Article.....



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[†]Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431 004, India

[‡]Division of Organic Chemistry, National Chemical Laboratory, Pune 411 008, India

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Dr. N. G. Aher, Dr. H. V. Thulasiram,
Dr. M. S. Shingare, Dr. R. A. Mane
Dr. A. S. Mane Dr. B. R. Sathe
Dr. P. P. Wadgaonkar Dr. N. P. Argade,
Dr. P. S. Sagar, Dr. A. P. Thakur,
Dr. A. V. Ghule.....and many more
Family Members.....Research Scholars

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Dr. D. R. Mane Dr. R. S. Mali
Dr. M. M. Salunkhe Dr. N. N. Maldar
Dr. V. V. Pandharipandey Dr. D. B. Shinde
Dr. B. A. Chopade Dr. L. E. Overman
Dr. N. L. Kotapalle Dr. Sudhir Gavane
Dr. Ashok Mohekar Dr. Keshav Deo

.....**Many well-wishers**

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Suggestions.....

Expectations.....

WORK IS WORSHIP.....

THANK YOU

Best Wishes.....