



Prepared by:
Dr. Nur Hafizah Abd Khalid
Faculty of Civil Engineering

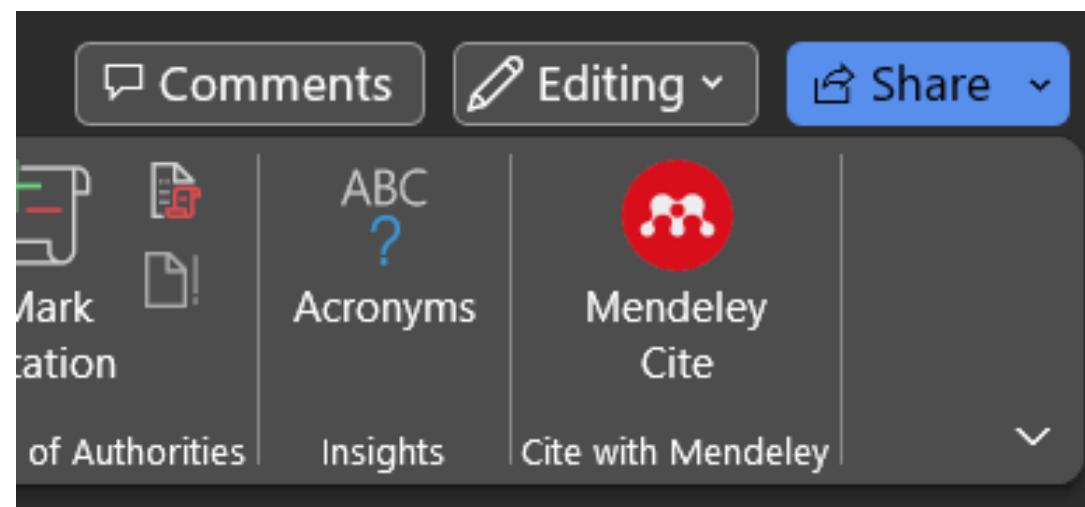
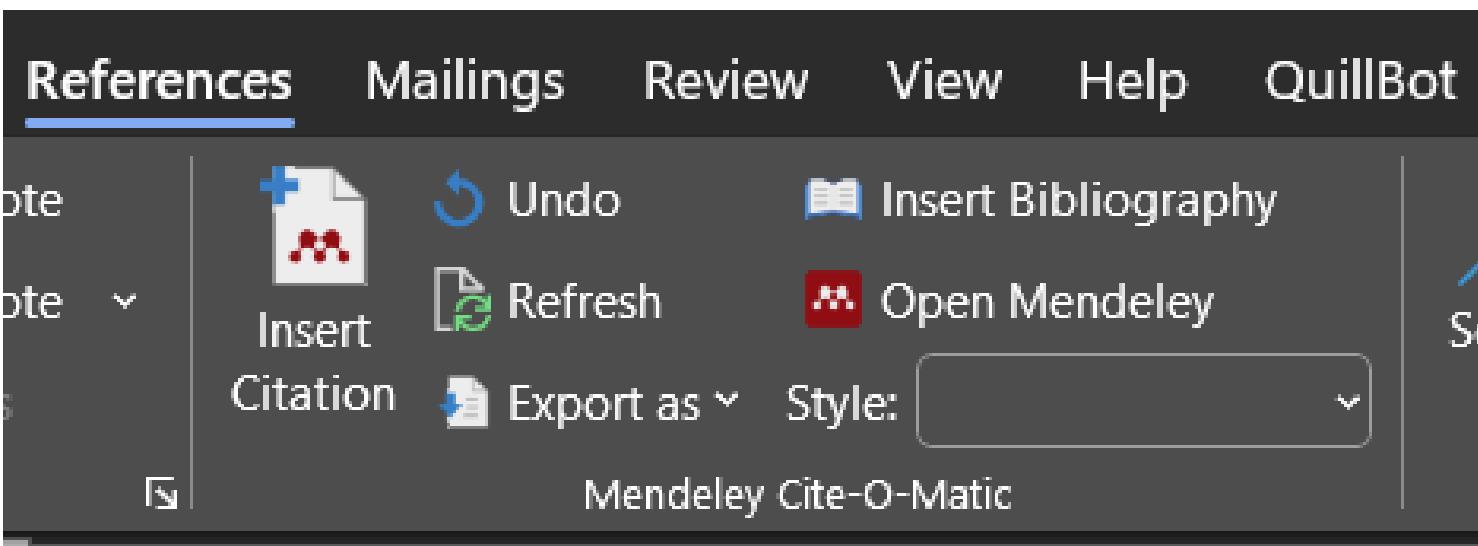
Mendeley Desktop Vs. Mendeley Reference Manager

Mendeley Reference Manager will replace Mendeley Desktop in the long run

As part of the continued evolution of Mendeley, from 1 September 2022, users will no longer be able to download and install Mendeley Desktop software. Existing users of Mendeley Desktop will continue to be able to sign into, use and sync their Mendeley Desktop.

Longer-term, once we are confident that the new Mendeley Reference Manager sufficiently meets your reference management needs, we will begin the process of stopping all sign-ins to Mendeley Desktop. We will be sure to give you plenty of notice before this happens.

Mendeley Desktop Vs. Mendeley Reference Manager



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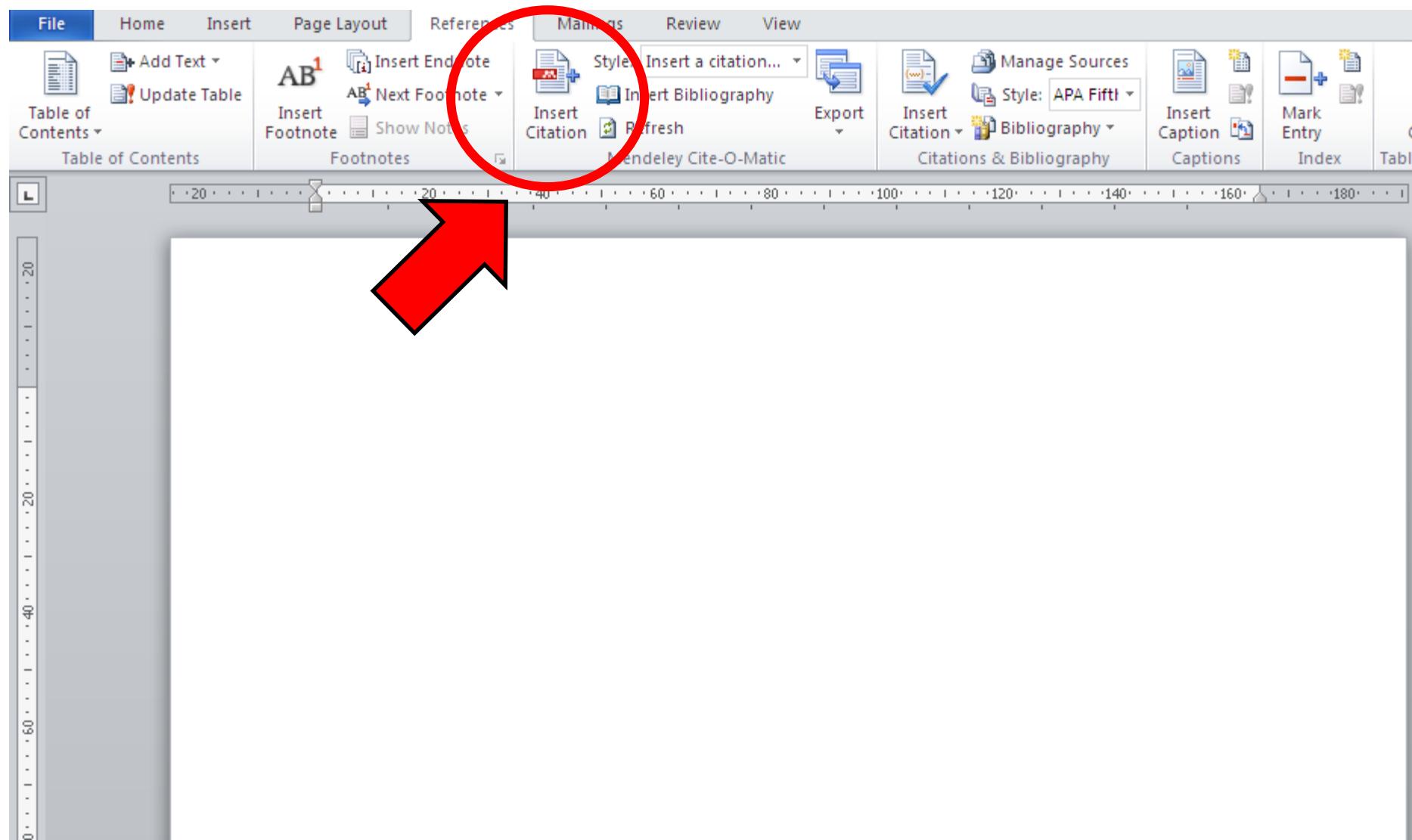
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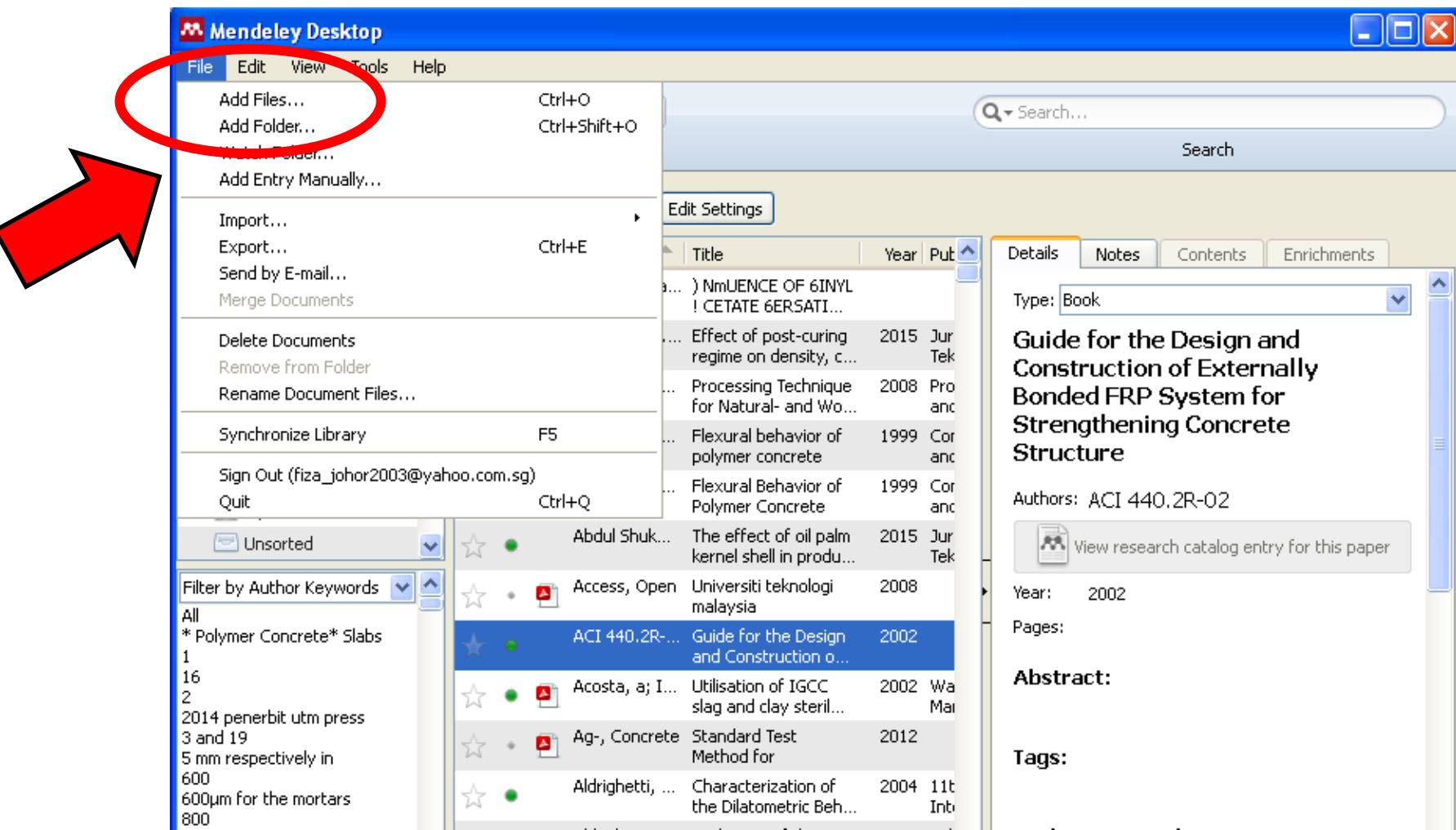
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Details Notes

Type: Journal Article

Flexural Behavior of Polymer Concrete

Authors: H. Abdel-Fattah, M. Moetaz

View research catalog entry for this paper

Journal: Construction and Building Materials

Year: 1999

Volume: 13

Issue: 5

Pages: 253-262

Abstract:

Tags:

Author Keywords:

compressive strength; ductility; epoxy; four point testing; modulus of rupture; polyester; polymers and resins; reinforcing steel

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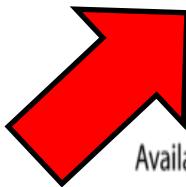
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Polymer Testing 22 (2003) 849–857

Test method

Thermal expansion of epoxy and polyester polymer mortars—plain mortars and fibre-reinforced mortars

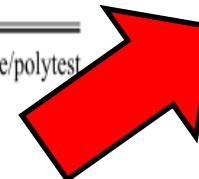
M.C.S. Ribeiro, J.M.L. Reis, A.J.M. Ferreira *, A.T. Marques

Instituto de Engenharia Mecânica e Gestão Industrial, Depto de Eng Mec e Gestão Ind, Rua Dr Roberto Frias, Faculdade de Engenharia, Universidade do Porto, Porto 4200-465, Portugal

Received 17 December 2002; received in revised form 18 December 2002; accepted 13 February 2003

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POLYMER TESTING



Type: Journal Article

Thermal expansion of epoxy and polyester polymer mortars—plain mortars and fibre-reinforced mortars

Authors: M. Ribeiro, J. Reis, A. Ferreira et al.



[View research catalog entry for this paper](#)

Journal: *Polymer Testing*

Year: 2003

Volume: 22

Issue: 8

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Contents

Enrichments

Type: Journal Article

Durability of slag mortar reinforced with coconut fibre

Authors: V. John, M. Cincotto, C. Sjöström et al.



View research catalog entry for this paper

Journal: *Cement and Concrete Composites*

Year: 2005

Volume: 27

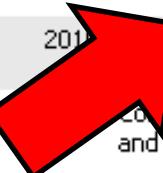
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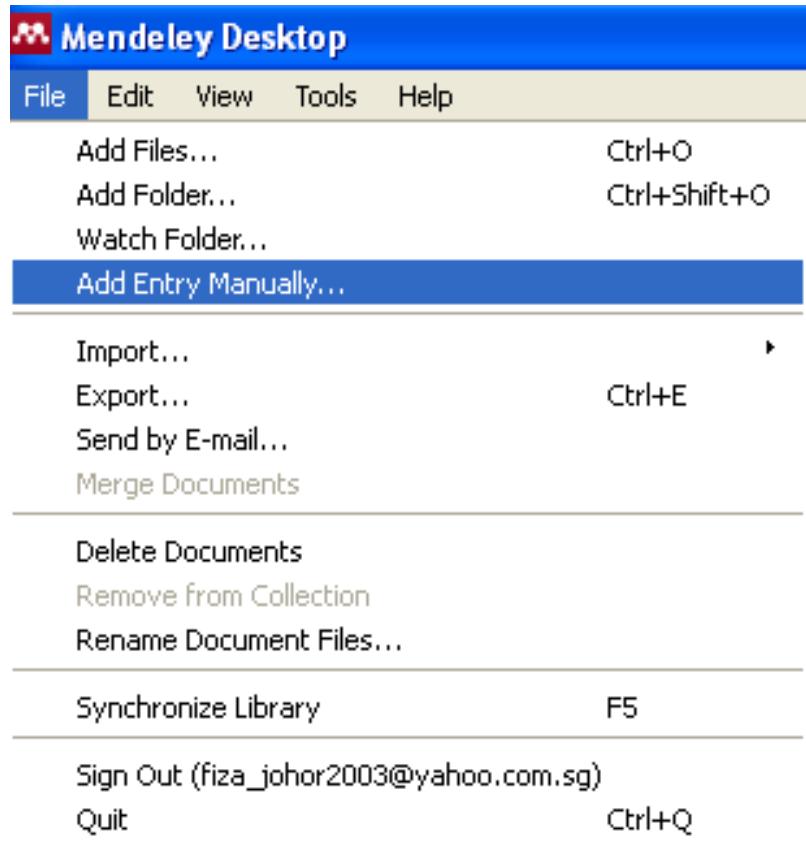


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Example:

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Details Notes Contents Type: Journal Article

Mechanical durability of a polymer concrete : a Vickers indentation study of the strength degradation process

Authors: G. Domenico, P. Tassone



Journal:

Year: 2004

Volume: 18

Issue:

Pages: 561-566

Abstract:

Domenico, G. and Tassone, P. (2004). Mechanical durability of a polymer concrete : a Vickers indentation study of the strength degradation process. 18, 561-566.

Gorninski, J.P., Molin, D.C.D. and Kazmierczak, C.S. (2007). Comparative assessment of isophthalic and orthophthalic polyester polymer concrete : Different costs , similar mechanical properties and durability. 21, 546-555.

Kaddami, H., Dufresne, A., Khelifi, B., Bendahou, A., Taourirte, M., Raihane, M., Issartel, N. and Sautereau, H. (2006). Short Palm Tree Fibers – Thermoset Matrices Composites. 37, 1413-1422.

Mohamed, A.O. and Gamal, M. El (2009). Cement & Concrete Composites Hydro-mechanical behavior of a newly developed sulfur polymer concrete. *Cement and Concrete Composites*. 31(3), 186-194.

Mun, K.J., Choi, N., So, S. and Soh, Y. (2007). Influence of Fine Tailings on Polyester Mortar Properties. *Construction and Building Materials*. 21(2007), 1335-1341.

Nunes, L.C.S., Reis, J.M.L. and Mattos, H.S.C. (2011). Parameters identification of polymer concrete using a fracture mechanics test method and full-field measurements. *Engineering Fracture Mechanics*. 78(17), 2957-2965. Available at: <http://dx.doi.org/10.1016/j.engframech.2011.08.013>.

Reis, J.M.L. (2011). Effect of aging on the fracture mechanics of unsaturated polyester based on recycled PET polymer concrete. *Materials Science & Engineering A*. 528(6), 3007-3009.

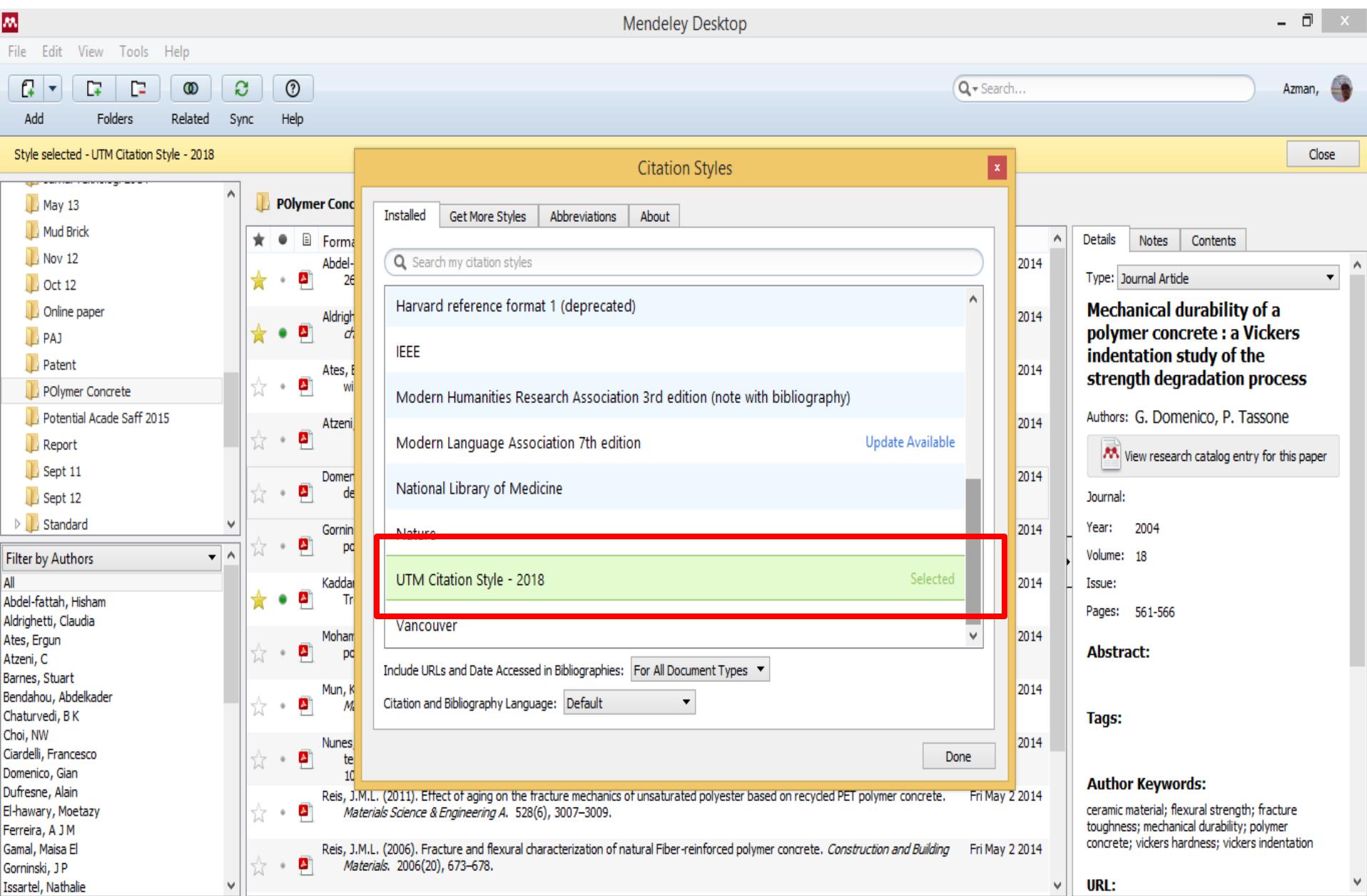
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Tags:

ceramic material; flexural strength; fracture toughness; mechanical durability; polymer concrete; vickers hardness; vickers indentation

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Mechanical durability of a polymer concrete : a Vickers indentation study of the strength degradation process

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Journal:

Year: 2004

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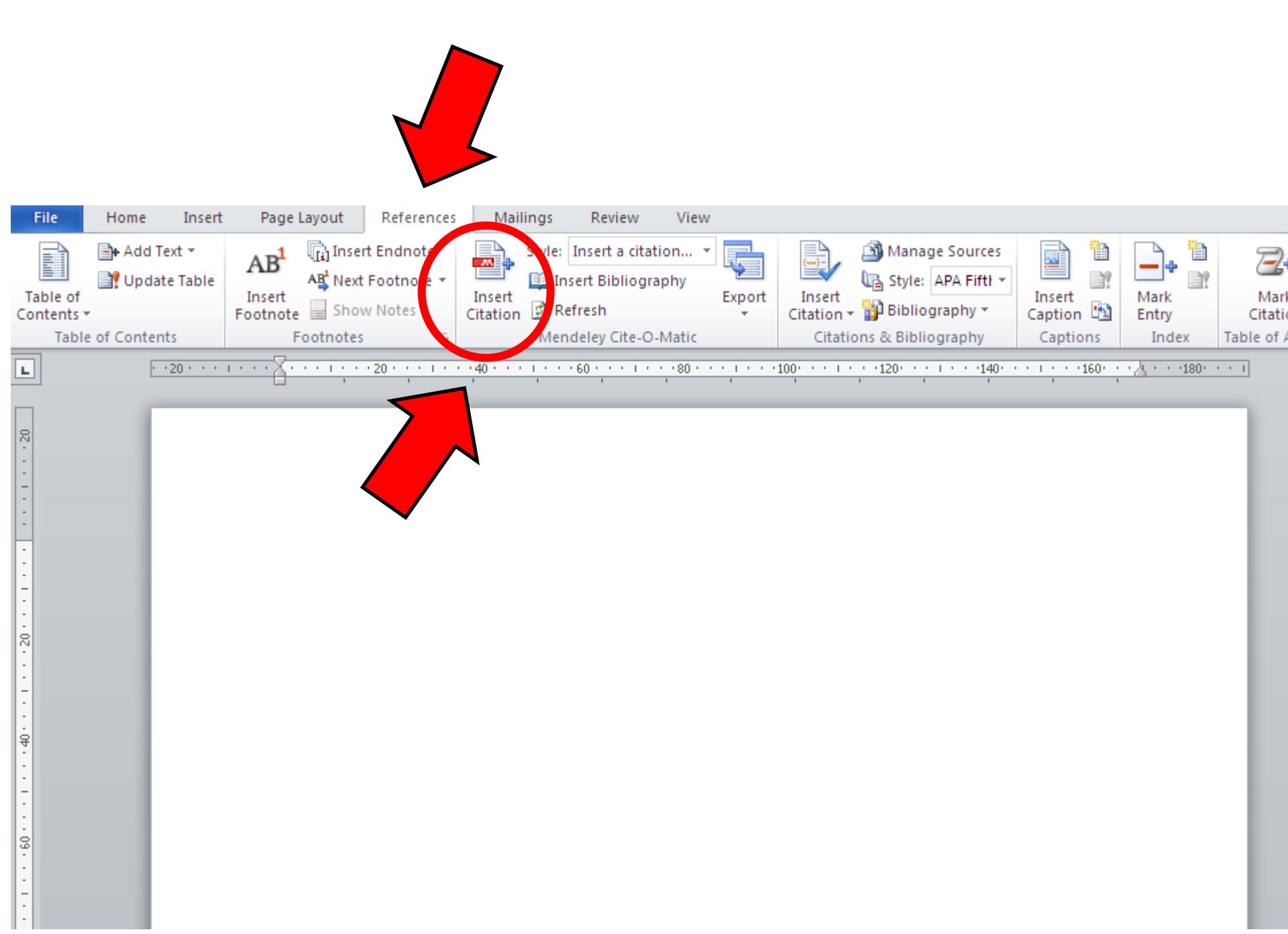
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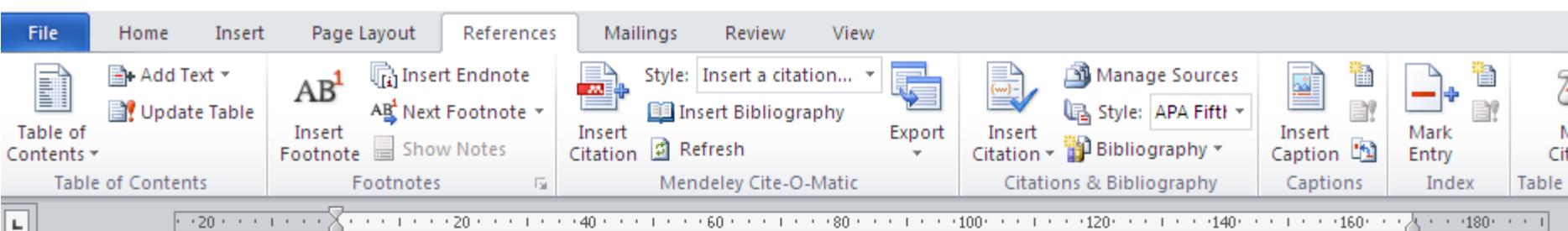
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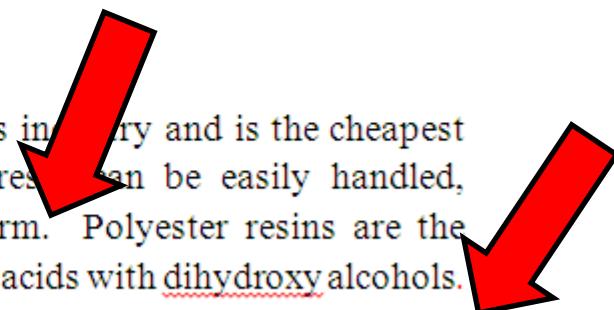
Example:

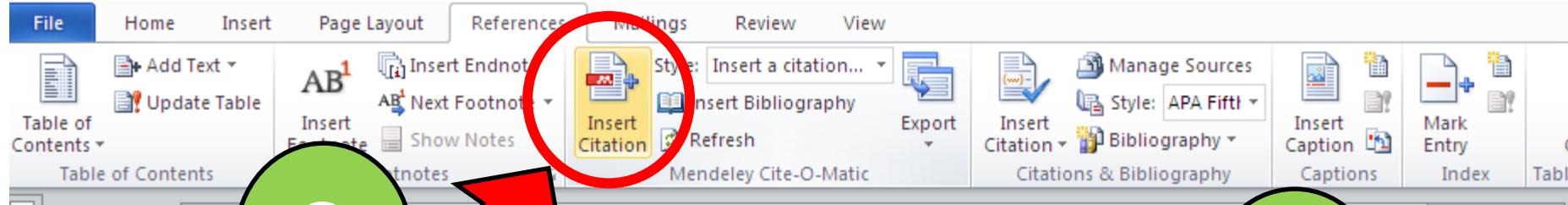
Polyester resin is commonly used in the composites industry and is the cheapest among thermosetting resins. Additionally, the resin can be easily handled, pigmented, filled, and fiber-reinforced in liquid form (Yang and Lee, 2001; Kueh, 2014). Polyester resins are the product of polycondensation reactions of dicarboxylic acids with dihydroxy alcohols (Carraher, 2007).



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3

Mendeley Desktop

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My Library Comparison of unsatur...

All Documents Edit Settings

Results for "Yang and lee" in "All Documents" Clear

Search Results

Properties of cementless mortars activated by
Keun-Hyeok Yang; J Song; AF Ashour; E... - 2008 - Con
Authors: Keun-Hyeok **Yang**, Jin-Kyu Song, Ashraf F. A.
...by sodium silicate Keun-Hyeok **Yang** a c a,* , Jin-Kyu

Comparison of unsaturated polyester and vinyl
Huan Yang; LJ Lee - 2001 - Journal of Applied Polymer :
Authors: Huan **Yang**, L James **Lee**
...in Low Temperature Polymerization HUAN **YANG**, L. J.

Handbook of Thermoset Plastics
Andreas Kandelbauer; G Tondi; OC Zask... - 2014 - Han
...96] Peng G, Li Q, **Yang** Y, Wang H, Li W. Polym Adv T

Effect of co-promoter and secondary monomer
Xia Cao; LJ Lee - 2001 - Journal of Applied Polymer Sci
...9. Suspene, L.; Fourquier, D.; **Yang**, Y. S. Polymer 19

Chapter 1. 1.1.
R E Young; PE Bruins - 2000
...1981. E. Pezon, Y. S. **Yang**, and L. Suspene, J. Reir

Microstructural and mechanical characterizatic
Mei-Rong Wang; D Jia; P He; Y Zhou - 2011 - Ceramics
...L. Jiang, S.X. Ou **yang**, J.L. Shi (Eds.), Handbook of

Details Notes Contents Enrichments

Type: Journal Article

Comparison of unsaturated polyester and vinyl ester resins in low temperature polymerization

Authors: H. Yang, L. Lee

View research catalog entry for this paper

Journal: *Journal of Applied Polymer Science*

Year: 2001

Volume: 79

Issue:

Pages: 1230-1242

Abstract:

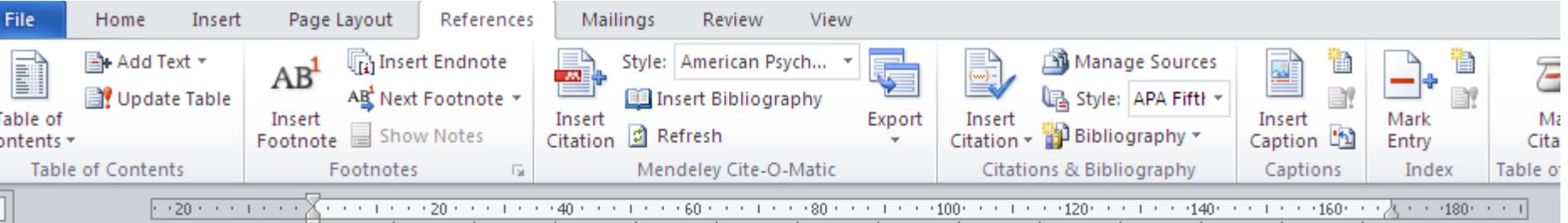
Tags:

1

2

3

The screenshot shows the Mendeley Desktop application interface. A search bar at the top contains the query "Yang and lee". Below the search bar, a red circle highlights the "Cite" button in the toolbar. A large green circle with the number 3 is positioned above the toolbar. In the main window, a red circle highlights the first search result, which is a journal article titled "Comparison of unsaturated polyester and vinyl ester resins in low temperature polymerization". Another red circle highlights the second search result, which is a chapter titled "Effect of co-promoter and secondary monomer". A large green circle with the number 2 is positioned below the second search result. A large green circle with the number 1 is positioned to the right of the detailed view of the first search result. Red arrows point from the numbered circles towards their respective highlighted elements.



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File Edit View Tools Help

Yang and lee



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- Unsorted
- ASTM

Filter by Author Keywords

All
* Polymer Concrete* Slabs
1
16
2
2014 penerbit utm press
3 and 19
5 mm respectively in
600
600 μ m for the mortars
ANN

All Documents

Edit Settings

Results for "Yang and lee" in "All Documents"

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Enrichments

Type: Journal Article

Comparison of unsaturated polyester and vinylester resins in low temperature polymeri...

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Volume: 79

Issue:

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Abstract:**Tags:**

Mendeley Desktop

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Search bar: kueh

1

2

3

All Documents

Results for "kueh" in "All Documents"

Influenced mechanical isotropy of singly-plied I
Ahmad B H Kueh - 2014 - Composites Part A: Applied Sc
Authors: Ahmad B H Kueh
...fabric composites Ahmad B.H. Kueh & Construction F

Friction and cohesion coefficients of composite
M.E. Mohamed, T.T. Ibrahim, D. Abdullayev, ... - 2015 - Ceme
Authors: ...Abd. Rahman, a.B.H. Kueh, J. Usman
...Rahman a , A.B.H. Kueh b , J. Usman a a b Faculty c

Details Notes Contents Enrichments

Type: Journal Article

Influenced mechanical isotropy of singly-plied triaxially woven fabric comp...

Authors: A. Kueh

View research catalog entry for this paper

Journal: Composites Part A: Applied Science and Manufacturing

Year: 2014

Volume: 57

Issue:

Pages: 76-87

Abstract:

Tags:

Filter by Author Keywords

All

* Polymer Concrete* Slabs

1

16

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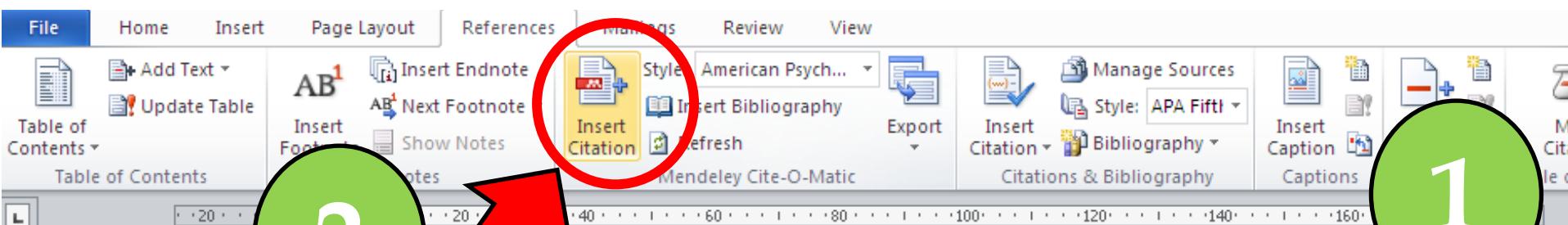
5 mm respectively in

600

600 μ m for the mortars

800

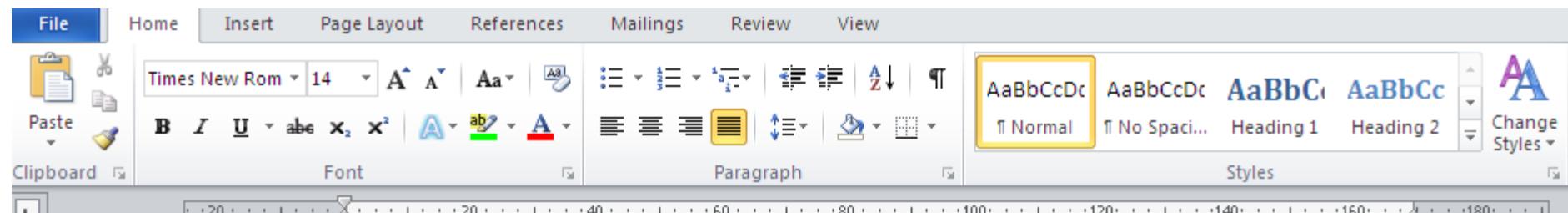
800 μ m for the mortars



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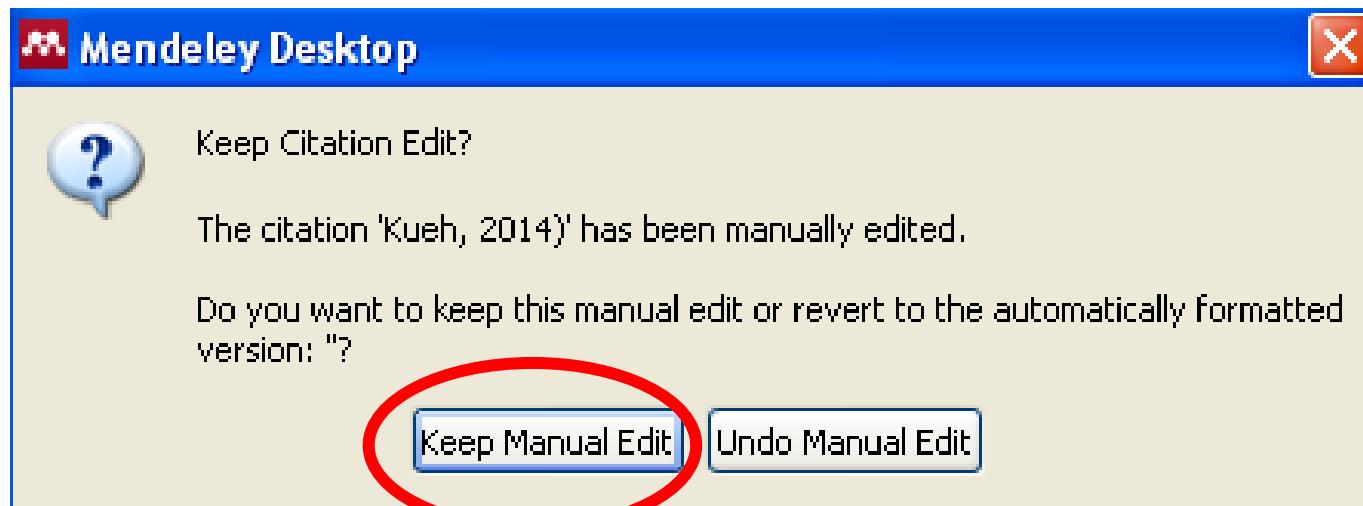
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Manual Edit/Merging

(Yang and Lee, 2001) (Kueh, 2014)



(Yang and Lee, 2001; Kueh, 2014)

Exercise

- Let do yourself



Different Style of Citation

| Application | Type of Fibers | Category of fiber | Type of resins | Authors | Years |
|--|---|-------------------|------------------------------------|---------------------------|-------|
| Roof Structure | Cellulose fibers: Recycled cardboard boxes | Short fiber | Soybean oil-based resins | M.A. Dweib et al. | 2006 |
| Floor Coverings with Fire Retardancy | Hemp | Long fiber | Polyester | T. D. Hapuarachchi et al. | 2007 |
| Insulation Board | Kenaf | Long fiber | Polyester | Fulvio Ardente et al. | 2008 |
| Strengthening Plate | Oil Palm | Short fiber | Polyester | Liew Shan Chin | 2008 |
| House, walkway, decking, gate, pergola, benches, manhole cover, door | Oil palm, sawdust and rice husk, | Short fiber | Recycled high density polyethylene | Liew Shan Chin | 2008 |

Example (Highlight)

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and one type of polyester. The studied parameters included the percentage of polymer in the concrete mix (three percentages were used: 9, 12 and 15%), and the reinforcement ratio ($\rho = 0, 0.0042$ and 0.0116). The results show that the modulus of rupture and ultimate compressive strains for PC are much higher than that of ordinary Portland cement concrete. The beams showed a very ductile behavior and high ductility factors were obtained. The test results were compared with the equations used in the ACI design method and several recommendations are made to modify some of those equations to become more suitable for the flexure design of PC. © 1999 Elsevier Science Ltd. All rights reserved.

Keywords: Polymers and resins; Epoxy; Polyester; Reinforcing steel; Modulus of rupture; Compressive strength; Ductility; Four point testing

1. Introduction

Polymer concrete (PC) is a composite material in which polymeric materials (resins) are used to bond the aggregates in a fashion similar to that of portland cement used in the preparation of portland cement concrete. It was first developed in the 1950s and then became widely known in the 1970s [1]. Today, PC is used very efficiently in precast components for buildings, bridge panels, hazardous waste containers, machine bases, and in various utility and transportation used as a repair material for pavements, buildings, bridges, floors and dams [2–6].

Research on concrete using polymer resins as a binding material [7–11] has shown that the strength and failure modes are influenced by curing, temperature and strain rate. The polymeric binders are usually two component systems: one containing the polymer (base) and the other a hardener (in the case of epoxy resins) or an accelerator (in the case of polyester resins) that reacts with the polymer to form the binding material. The relatively high cost of PC has led to

Searching Function

- ❑ Use Keyword to search
- ❑ Example : concrete, pavement, bacteria, etc



Extract File from Mendeley

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