

Unit 13 - Femtochemistry of Nanocatalysis

Course outline

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Femtochemistry of Nanocatalysis 1

Femtochemistry of Nanocatalysis 2

Quiz : Assessment week 12

Assessment week 12

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-10-23, 23:59 IST.

1) What is the typical time scale for heat exchange between electron and phonon baths? 2 points

- 1 fs
 1 ps
 1 ns
 1 μ s

No, the answer is incorrect.
Score: 0

Accepted Answers:
1 ps

2) What is true for a catalytic reaction? 2 points

- activation energy is suppressed
 reaction rate is increased
 catalyst is not consumed in the reaction
 all true

No, the answer is incorrect.
Score: 0

Accepted Answers:
all true

3) Molecular electrostatic potential includes potential (review) 2 points

- due to electron-electron interaction
 due to electron-nuclei interaction
 due to both electron-electron and electron-nuclei interaction
 due to none of above

No, the answer is incorrect.
Score: 0

Accepted Answers:
due to both electron-electron and electron-nuclei interaction

4) CPA scheme to create a short pulse includes (revision) 2 points

- compressed-pulse-amplification
 stretch-amplify-compress
 directly amplify
 stretch-amplify

No, the answer is incorrect.
Score: 0

Accepted Answers:
stretch-amplify-compress

5) Which one of the following is true? (review) 2 points

- Frenkel excitons typically exhibit larger exciton binding energies than Mott-Wannier exciton
 Mott-Wannier exciton binding energies are not comparable to the thermal energy kT
 Frenkel excitons binding energies are comparable to the thermal energy kT
 Mott-Wannier exciton typically exhibit larger exciton binding energies than Frenkel excitons

No, the answer is incorrect.
Score: 0

Accepted Answers:
Frenkel excitons typically exhibit larger exciton binding energies than Mott-Wannier exciton

You were allowed to submit this assignment only once.