



D. J

27, 1975: C , C , A

Ph.D., Organic Chemistry, 07/2006

C , I , CA, A
 A : D.

B.S., Chemistry with Honors and Distinction, 05/1998

C , C H , C, A
 H A :

Associate Professor, D C B , 07/2014

Secondary Affiliation with Materials Science Institute

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Assistant Professor, D C , 08/2009 06/2014

Secondary Appointment with Division of Materials Science and Engineering

B , B , A, A

Post Doctoral Fellow, 08/2006 07/2009

C & B , B , CA, A
 A : C . B

Research Associate Level II, 07/2000 05/2001

D , I . (D, I .)
 A : D . D J.

Research Associate Level I, 07/1998 06/2000

A C , I . (C . , C, D, I .)
 A : D . J . C

C E F A (2018)
 F F E A (2018)
 C D - A (2014-2019)
 B I (2013-2014, 2014-2016)
 A . F (2013-2015)
 F CA EE A (2013-2018)
 B E I A (2013)
 B I A (2013)
 , E E C (2013)
 A C A I A (2013)

F J A (2012)
 , 1994 1998 ()

Independent Career

, E. J.; , J. ; , D ; , . ; A , B.*;
 J , . A B - A - , A
 G C . *Nano Letters*, , .
 , . A.; , J. ; , . ; , ; J , . -
 - . *Angew. Chem. Int. Ed.*
 .
 , B. ; , ; , . E.; B , B. ; , . D.; J , .
 "E C B F :
 C ." *ACS Cent. Sci.* 4, 1173-1178.
 , . ; , ; D , E.; J , ; , . A. "H
 6 :
 - ." *Chem. Commun.* 54, 7818-7821
 , ; -A , ; , ; E , . J.; D , E. ; J , ; B ,
 . ; , J. ; B , . G.; C , J.; , . "H
 C 5 -C - - ." *Chem. Eur. J.*, 23, 16593-16604.
 G , . ; , . ; J , . " I
 A B ." *Pure Appl. Chem.* 89, 1603-1617.
 , ; , . ; J , . "A
 B : , C , ." *Angew. Chem. Int. Ed.*
 , 56, 5237-5241.
 , J. ; , ; , . ; J , . "2,2'-B -
 C G I -
 C C ." *J. Am. Chem. Soc.* , 139, 2936.
 D , E. ; , B. ; , . ; , . ; J , . "A
 H A B E
 A C C ." *J. Am. Chem. Soc.*, , 139,
 3106.
 , B.; G , C.; , J.; , D.; D , E. D.; C , ; J , ;
 , G. " C E
 C ." *J. Phys. Chem. Lett.* , 7, 3073.
 G , . ; C , C. E.; , B. ; , . ; , J.; J , .
 "I A / -C
 A B ." *J. Am. Chem. Soc.*, , 138, 6577.
 A , ; D , . C.; , ; B , ; ,
 J. ; E , ; J , ; , ; , ; C , J. "

F C C : C
 D C ." *Chem. Sci.*, , 7, 3494.

, ; , B. ; C , . ; J , . "I 1,4-
 A -I C ." *Org. Lett.*, , 18, 1574.

J , E. ; , . J; D , E. ; J , . " D -A
 C ." *Tetrahedron*, 72, 3754.

, . J; , . ; , B. ; J , . " -E
 C C G : I
 ." *Chem. Sci.*, , 7, 3681.

, J. ; D , E. ; , . ; J , . "
 C H D - A ." *Org. Biomol. Chem.*, , 14, 5721.

A , . ; , ; D , . C. ; , ; B , . G; , ;
 J , ; , J. . ; C , J; , . "F C
 : E C
 B A ." *Phys. Chem. Chem. Phys.*, , 18, 11683.

, ; J , ; , . "A C H E : C
 A D C
 - - ." *J. Am. Chem. Soc.*, , 137, 14999.

D , E. ; H , E. ; , C. D; , . ; , . C; J , .
 " , , D D -A ." *ACS Cent. Sci.*, , 1, 335-342.

H , D; D , E. ; J , ; , . "C : E
 B 8 C 1,15- 8 C ." *J. Phys. Chem. A*, , 119, 8083.

, E.; , . ; , J; J , ; , . " G -
 6 C ." *Synlett*, , 26, 1615.

D , E. ; J , . , - 5 -
 12 . *Chem. Soc. Rev.*, , 44, 6401. I
 "C A : 150 ' B " .

G , . ; J , . " C
 E ." *Acc. Chem. Res.*, , 48, 557

C , H; G , . ; , F; D , . ; J , ; , ; , A. .
 " -A E - C : C
 E D F (DF) C

G A ." *J. Phys. Chem. C*, , 119, 2879.

A , ; , I; C , H; , A. ; , ; F -A , ;
 G , . ; J , , D , . ; , . " - E C
 C A E F C

C ." *Nano Lett.*, , 14, 6539.

, . ; C , C.; , J.; J , . ; I , . " D
E C " J.
C . C , 10, 4025.
A , . ; B , . ; A , A.; , . ; , J.; J , . ;
E , J. . ; , . G.; C , J.
E C B :
E - . *Angew.
Chem. Int. Ed.* , 53, 7033.
E , . J.; D , E. ; J , . E -
H C F B . *Nat. Chem.*
, 6, 404.
H , D. A.; D , E. ; J , . ; , . C : E
B 9 - 12 C *J. Phys. Chem. A,*
, 118, 1595.
C , H.; G , . ; , F.; J , . ; , A. . "
C ." *Carbon,* , 67, 203.
, . ; D , E. ; J , . E B C C
. *rg. Lett.* , 16, 182.
G , . ; , B.; B , J. ; J , . C . *Chem. Sci.*
I 8 C , 4, 4285.
, A.; , . ; F , A. ; , J.; J , . ; , . A.
8 C . *Angew. Chem. Int. Ed.* , 55, 5033.
H , E. ; J , . B B : C . *J.
Org. Chem.* , 77, 10473.
, J.; G , . ; F , . E.; , B.; J , . , C
C C D . *J. Am. Chem. Soc.* ,
134, 19709.
E , . J.; J , . B . *Topics in Curr. Chem.* .
D , E. ; , . J.; J , . 7 - 12 C
- C . *J. Org. Chem.* , 77, 6624-
6628.
, J.; B , J. ; J , . G - C 8 -
10 C , - C₆₀@ 10 C . *Chem. Sci.* , 3,
3018-3021.
, . J.; , . ; J , . D - C
12 C : - C
. *J. Org. Chem.* , 77, 5857-5860.
, J.; J , . C C
6 C . *Angew. Chem. Int. Ed.* , 51, 2474-2476.

J.; J. , .
 7 C . *Synlett*, I A , , 23, 483-489.
 H , E. ; , F.; J , . A 5.7 _nC : C -
 C I . *Org. Lett.* , 13, 6220-6223.
 , . J.; G , . ; H , E. ; J , .
 7 C : A -E F . *J. Am. Chem. Soc.* ,
 133, 15800-15802.
 , ; J , . C : -
 A C . I *Fragments of Fullerenes and Carbon
 Nanotubes: Designed Synthesis, Unusual Reactions, and Coordination Chemistry*;
 A., , . E ; , 2011.
 J , ; B , C. C B -
 C D C . I F A ,
 . *Chem. Phys. Lett.* 494, 1-7.

Postdoctoral, Graduate, and Undergraduate

J , ; B , J.; , J. B.; B , C. .
 C , 9 -, 12 -, 18 C : C ,
 . *J. Am. Chem. Soc.* 130, 17646-17647.
 , .J.; J , ; , .D. C 1: D E .
 E , A , , A A .
 I *Science of Synthesis*; F , C, J., J , E. . E ; G
 , 2008; . 37, . 9-46.
 J , ; , .D. C . *J. Am.
 Chem. Soc.* 128, 13640-13648.
 J , ; , .D. :
 I C , 2- -C , G
 F . *Org. Lett.*, , 8, 2175-2178.
 J , ; A , C. D; , . D. -C
 C . *J. Am. Chem. Soc.*,
 127, 9939-9945.
 J , ; , J.; , .D. A - C
 -B E . *J. Am. Chem. Soc.*, 126, 9904-9905.
 H , J. F.; , A. C.; C , ; , . ; J , ; , . ;
 D , J.; , . G.; , . . D
 D - C - G C .
Anal. Chem., 71, 3703-3711.
 J , ; , J. . C I - π - .

J , .; B , B. B.; , B. . C
B .

J , .; , J. ; , E. J. H C
.

J , .; D , E. . D -
. A . 20160372684.

J , .; , J. (CC),
. . . . 9090473.

J , .; B , C. C . . .
8461403, 8987538 9162939.

C (A 12,2018)
(F 21, 2018)
C (2, 2017)
(6, 2017)
C (31, 2017)
H (21, 2017)
C (F 24, 2017)
C , (J 1, 2016)
E (A 14, 2016)
(J 28, 2016)
I (25, 2015)
(A 22, 2015)
G (F 26, 2015)
A (D 4, 2014)
C (3, 2014)
C , B (A 25, 2014)
. (A 11, 2014)
(A 10, 2014)
(26, 2014)
(11, 2014)
(4, 2014)
(F 27, 2014)
C C H (F 21, 2014)

(F 6, 2014)

I C (F 4, 2014)

A (J 30, 2014)

D C (J 23, 2014)

(J 15, 2014)

(J 13, 2014)

C , D (, 25, 2013)

J H (19, 2013)

C , A (14, 2013)

C I (13, 2013)

H (24, 2013)

, (13, 2013)

E , B , A (A 23, 2013)

C (A 3, 2013)

(F 18, 2013)

(F 15, 2013)

C , I (F 13, 2013)

(J 24, 2013)

A - (, 2, 2012)

A , I . C , CA (J 16, 2012)

, D (F 22, 2012)

B C (J 26, 2010)

C - (C - III), , (6, 2018)-I

"C C ,"

AC , A (19, 2018)-I

17 I A (I A-17) , (J 28, 2017)-I

100 C C C , (28, 2017)-I

F C C 2016, , F (3, 2016)-I

2015, H (D 15, 2015)-I

3 E C A , E , G (4-7, 2015)-I

16 I A C (I A-16), ,
(J 5, 2015)-I
C - (C -), , J (20,
2014)-I
F C , F C - C -B , E
J , (22, 2014)-I
CCE G , (A 14,
2014)-I
A C , B , A
(10, 2013)-I
A I A , F 2013 AC , I , I
(8, 2013)-I
2 I C C & G -2013, , A
(4, 2013)-I
G C : G C , C
, D C , D , C , J 20, 2012-I .
14 I A C (I A-14), E ,
, J 26, 2011.
244 AC & E , , A, , A
19-23, 2012 (2012), G -42.
241 AC & E , A , CA, , 27-
31, 2011 (2011), G -644.

F CHE (CHE-1800586) A A
B , : I: A \$450,000 (08-01-18 07-31-21).
F CHE (CHE-1808791) B B
C , : I: A \$240,000 (08-01-18 07-31-22).
D E BE C E C -
E , : C - : C : \$294,592 (07-01-18 06-30-21).
/ H C G
B I , : C - : C : \$50,000 (\$30,000 , 07-01-18 06-30-
19).
C D - A , A \$75,000 (2014-2019).
F I (CHE-1531189) I: A
CA C ; : C - I: A \$115,346
(08-01-15 07-31-18).
F I (CHE-1531189) I: A H
E CA C , : C - I:
A \$174,076 (08-15-16 07-31-19).