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As of August 2020

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Education

Ph.D. in Area Name (advisor: Prof. AAA) 20XX
My University

M.S. in Area Name 20XX
My University

B.S. in Area Name 20XX
My University

Industry Experience

Position 1 20XX–20XX
Company Name, City, Country
Description of the experience

Position 2 20XX–20XX
Company Name, City, Country
Description of the experience

Academic Experience

Position 1 20XX–20XX
My Department, My University

Position 2 20XX–20XX
My Department, My University

Teaching Experience

Subject Name 1 spring 20XX
My Department, My University
- Description 1
- Description 2
- Description 3

Subject Name 2 spring 20XX
My Department, My University
- Description 1
- Description 2
- Description 3

Honors & Awards

Award 1, *Awarding Organization* 20XX
Award 2, *Awarding Organization* 20XX
Award 3, *Awarding Organization* 20XX

All Publications

13. W. Shin, D. Liu, S. G. Johnson. "Fixed-point formulation of the steady-state *ab initio* laser theory for solution by a black-box Maxwell solver." *In preparation.*
12. W. Shin, A. Raman, S. Fan. "Upper bound of Ohmic loss rates in deep-subwavelength metallic structures: from microwave to optical frequencies." In: *AFOSR Annual Review of EM Contractors*, Arlington, Virginia. Jan. 2017.

11. W. Shin, S. Fan. "Unified picture of modal loss rates from microwave to optical frequencies in deep-subwavelength metallic structures: A case study with slot waveguides." *Applied Physics Letters* **107** (2015): 171102 [link].
10. T. Liu*, Y. Shen*, W. Shin*, Q. Zhu, S. Fan, C. Jin. "Dislocated double-layer metal gratings: an efficient unidirectional coupler." *Nano Letters* **14** (2014): 3848–54 [link] (***co-first authors**).
9. W. Shin, A. Raman, S. Fan. "Upper bound on the modal material loss rate in plasmonic and metamaterial systems." In: *First Year Review of AFOSR MURI: Template-Directed Directionally Solidified Eutectic Metamaterials*, Dayton, Ohio. Oct. 2013.
8. W. Shin, S. Fan. "Accelerated solution of the frequency-domain Maxwell's equations by engineering the eigenvalue distribution of the operator." *Optics Express* **21** (2013): 22578–95 [link].
7. W. Shin, W. Cai, P. B. Catrysse, G. Veronis, M. L. Brongersma, S. Fan. "Broadband sharp 90-degree bends and T-splitters in plasmonic coaxial waveguides." *Nano Letters* **13** (2013): 4753–58 [link].
6. W. Shin, W. Cai, P. B. Catrysse, G. Veronis, M. L. Brongersma, S. Fan. "Plasmonic nano-coaxial waveguides for 90-degree bends and T-splitters." In: *CLEO*, San Jose, California. June 2013.
5. A. Raman, W. Shin, S. Fan. "Upper bound on the modal material loss rate in plasmonic and metamaterial systems." *Physical Review Letters* **110** (2013): 183901 [link].
4. W. Shin, A. Raman, S. Fan. "Instantaneous electric energy and electric power dissipation in dispersive media." *Journal of the Optical Society of America B* **29** (2012): 1048–54 [link].
3. W. Shin, S. Fan. "Choice of the perfectly matched layer boundary condition for frequency-domain Maxwell's equations solvers." *Journal of Computational Physics* **231** (2012): 3406–31 [link].
2. W. Shin, S. Fan. "Choice of the perfectly matched layer boundary condition for iterative solvers of the frequency-domain Maxwell's equations." In: *SPIE Photonics West*, San Francisco, California. Jan. 2012.
1. W. Cai, W. Shin, S. Fan, M. L. Brongersma. "Elements for plasmonic nanocircuits with three-dimensional slot waveguides." *Advanced Materials* **22** (2010): 5120–24 [link].

All Journal Publications

9. W. Shin, D. Liu, S. G. Johnson. "Fixed-point formulation of the steady-state *ab initio* laser theory for solution by a black-box Maxwell solver." *In preparation.*
8. W. Shin, S. Fan. "Unified picture of modal loss rates from microwave to optical frequencies in deep-subwavelength metallic structures: A case study with slot waveguides." *Applied Physics Letters* **107** (2015): 171102 [link].
7. T. Liu*, Y. Shen*, W. Shin*, Q. Zhu, S. Fan, C. Jin. "Dislocated double-layer metal gratings: an efficient unidirectional coupler." *Nano Letters* **14** (2014): 3848–54 [link] (***co-first authors**).
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4. A. Raman, W. Shin, S. Fan. "Upper bound on the modal material loss rate in plasmonic and metamaterial systems." *Physical Review Letters* **110** (2013): 183901 [link].
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1. W. Cai, W. Shin, S. Fan, M. L. Brongersma. "Elements for plasmonic nanocircuits with three-dimensional slot waveguides." *Advanced Materials* **22** (2010): 5120–24 [link].

Journal Publications by Areas

Area 1

3. W. Shin, D. Liu, S. G. Johnson. "Fixed-point formulation of the steady-state *ab initio* laser theory for solution by a black-box Maxwell solver." *In preparation.*
2. W. Shin, S. Fan. "Accelerated solution of the frequency-domain Maxwell's equations by engineering the eigenvalue distribution of the operator." *Optics Express* **21** (2013): 22578–95 [link].
1. W. Shin, S. Fan. "Choice of the perfectly matched layer boundary condition for frequency-domain Maxwell's equations solvers." *Journal of Computational Physics* **231** (2012): 3406–31 [link].

Area 2

3. T. Liu*, Y. Shen*, W. Shin*, Q. Zhu, S. Fan, C. Jin. "Dislocated double-layer metal gratings: an efficient unidirectional coupler." *Nano Letters* **14** (2014): 3848–54 [link] (***co-first authors**).
2. W. Shin, W. Cai, P. B. Catrysse, G. Veronis, M. L. Brongersma, S. Fan. "Broadband sharp 90-degree bends and T-splitters in plasmonic coaxial waveguides." *Nano Letters* **13** (2013): 4753–58 [link].
1. W. Cai, W. Shin, S. Fan, M. L. Brongersma. "Elements for plasmonic nanocircuits with three-dimensional slot waveguides." *Advanced Materials* **22** (2010): 5120–24 [link].

Area 3

3. W. Shin, S. Fan. "Unified picture of modal loss rates from microwave to optical frequencies in deep-subwavelength metallic structures: A case study with slot waveguides." *Applied Physics Letters* **107** (2015): 171102 [link].
2. A. Raman, W. Shin, S. Fan. "Upper bound on the modal material loss rate in plasmonic and metamaterial systems." *Physical Review Letters* **110** (2013): 183901 [link].
1. W. Shin, A. Raman, S. Fan. "Instantaneous electric energy and electric power dissipation in dispersive media." *Journal of the Optical Society of America B* **29** (2012): 1048–54 [link].

All Conference Presentations

4. W. Shin, A. Raman, S. Fan. "Upper bound of Ohmic loss rates in deep-subwavelength metallic structures: from microwave to optical frequencies." In: *AFOSR Annual Review of EM Contractors*, Arlington, Virginia. Jan. 2017.
3. W. Shin, A. Raman, S. Fan. "Upper bound on the modal material loss rate in plasmonic and metamaterial systems." In: *First Year Review of AFOSR MURI: Template-Directed Directionally Solidified Eutectic Metamaterials*, Dayton, Ohio. Oct. 2013.

2. W. Shin, W. Cai, P. B. Catrysse, G. Veronis, M. L. Brongersma, S. Fan. "Plasmonic nano-coaxial waveguides for 90-degree bends and T-splitters." In: *CLEO*, San Jose, California. June 2013.
1. W. Shin, S. Fan. "Choice of the perfectly matched layer boundary condition for iterative solvers of the frequency-domain Maxwell's equations." In: *SPIE Photonics West*, San Francisco, California. Jan. 2012.

CONFERENCE PRESENTATIONS BY TYPES

Oral Presentations

2. W. Shin, W. Cai, P. B. Catrysse, G. Veronis, M. L. Brongersma, S. Fan. "Plasmonic nano-coaxial waveguides for 90-degree bends and T-splitters." In: *CLEO*, San Jose, California. June 2013.
1. W. Shin, S. Fan. "Choice of the perfectly matched layer boundary condition for iterative solvers of the frequency-domain Maxwell's equations." In: *SPIE Photonics West*, San Francisco, California. Jan. 2012.

Poster Presentations

2. W. Shin, A. Raman, S. Fan. "Upper bound of Ohmic loss rates in deep-subwavelength metallic structures: from microwave to optical frequencies." In: *AFOSR Annual Review of EM Contractors*, Arlington, Virginia. Jan. 2017.
1. W. Shin, A. Raman, S. Fan. "Upper bound on the modal material loss rate in plasmonic and metamaterial systems." In: *First Year Review of AFOSR MURI: Template-Directed Directionally Solidified Eutectic Metamaterials*, Dayton, Ohio. Oct. 2013.

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