

# Steffen Michaelis de Vasconcellos

## List of Publications by Citations

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72  
papers

3,969  
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29  
h-index

62  
g-index

89  
ext. papers

4,771  
ext. citations

7.3  
avg, IF

5.18  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 72 | Photoluminescence emission and Raman response of monolayer MoS <sub>2</sub> /MoSe <sub>2</sub> and WSe <sub>2</sub> . <i>Optics Express</i> , <b>2013</b> , 21, 4908-16                             | 3.3  | 1005      |
| 71 | Single-photon emission from localized excitons in an atomically thin semiconductor. <i>Optica</i> , <b>2015</b> , 2, 347  | 8.6  | 290       |
| 70 | Bright solid-state sources of indistinguishable single photons. <i>Nature Communications</i> , <b>2013</b> , 4, 1425  | 17.4 | 257       |
| 69 | Photovoltaic and photothermoelectric effect in a double-gated WSe <sub>2</sub> device. <i>Nano Letters</i> , <b>2014</b> , 14, 5846-52  | 11.5 | 186       |
| 68 | Controlling spontaneous emission with plasmonic optical patch antennas. <i>Nano Letters</i> , <b>2013</b> , 13, 1516-21   | 11.5 | 177       |
| 67 | Strain Control of Exciton-Phonon Coupling in Atomically Thin Semiconductors. <i>Nano Letters</i> , <b>2018</b> , 18, 1751-1757  | 11.5 | 121       |
| 66 | Nanoscale Positioning of Single-Photon Emitters in Atomically Thin WSe <sub>2</sub> . <i>Advanced Materials</i> , <b>2016</b> , 28, 7101-5  | 24   | 121       |
| 65 | Biaxial strain tuning of the optical properties of single-layer transition metal dichalcogenides. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,                                       | 8.8  | 118       |
| 64 | Evidence for confined tamm plasmon modes under metallic microdisks and application to the control of spontaneous optical emission. <i>Physical Review Letters</i> , <b>2011</b> , 107, 247402       | 7.4  | 116       |
| 63 | Ultrafast Coulomb-Induced Intervalley Coupling in Atomically Thin WS <sub>2</sub> . <i>Nano Letters</i> , <b>2016</b> , 16, 2945-50   | 11.5 | 110       |
| 62 | Thickness-Dependent Differential Reflectance Spectra of Monolayer and Few-Layer MoS <sub>2</sub> /MoSe <sub>2</sub> /WS <sub>2</sub> and WSe <sub>2</sub> . <i>Nanomaterials</i> , <b>2018</b> , 8, | 5.4  | 106       |
| 61 | Phonon Sidebands in Monolayer Transition Metal Dichalcogenides. <i>Physical Review Letters</i> , <b>2017</b> , 119, 187402  | 7.4  | 100       |
| 60 | Nanoantenna-Enhanced Light-Matter Interaction in Atomically Thin WS <sub>2</sub> . <i>ACS Photonics</i> , <b>2015</b> , 2, 1260-1265  | 6.5  | 92        |
| 59 | Reversible uniaxial strain tuning in atomically thin WSe <sub>2</sub> . <i>2D Materials</i> , <b>2016</b> , 3, 021011   | 5.9  | 89        |
| 58 | Highly Anisotropic in-Plane Excitons in Atomically Thin and Bulklike 1T'VReSe. <i>Nano Letters</i> , <b>2017</b> , 17, 3202-3207  | 11.5 | 86        |
| 57 | Thickness-Dependent Refractive Index of 1L, 2L, and 3L MoS <sub>2</sub> , MoSe <sub>2</sub> , WS <sub>2</sub> , and WSe <sub>2</sub> . <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900239 | 8.1  | 80        |
| 56 | Single photon source using confined Tamm plasmon modes. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 232111  | 3.4  | 68        |

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|----|--|------|----|
| 55 | Magnetic-Field-Induced Rotation of Polarized Light Emission from Monolayer WS <sub>2</sub> . <i>Physical Review Letters</i> , <b>2016</b> , 117, 077402  | 7.4  | 63 |
| 54 | Coherent control of a single exciton qubit by optoelectronic manipulation. <i>Nature Photonics</i> , <b>2010</b> , 4, 545-548  | 33.9 | 53 |
| 53 | Single-photon emitters in GaSe. <i>2D Materials</i> , <b>2017</b> , 4, 021010  | 5.9  | 52 |
| 52 | Interlayer excitons in a bulk van der Waals semiconductor. <i>Nature Communications</i> , <b>2017</b> , 8, 639   | 17.4 | 52 |
| 51 | On-Chip Waveguide Coupling of a Layered Semiconductor Single-Photon Source. <i>Nano Letters</i> , <b>2017</b> , 17, 5446-5451  | 11.5 | 52 |
| 50 | Inverted valley polarization in optically excited transition metal dichalcogenides. <i>Nature Communications</i> , <b>2018</b> , 9, 971  | 17.4 | 38 |
| 49 | Spatial, spectral, and polarization properties of coupled micropillar cavities. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 101103  | 3.4  | 37 |
| 48 | Magnetic-Field-Dependent THz Emission of Spintronic TbFe/Pt Layers. <i>ACS Photonics</i> , <b>2018</b> , 5, 3936-3942  | 6.3  | 37 |
| 47 | Phonon-assisted emission and absorption of individual color centers in hexagonal boron nitride. <i>2D Materials</i> , <b>2019</b> , 6, 035006  | 5.9  | 36 |
| 46 | Interlayer excitons in bilayer MoS <sub>2</sub> under uniaxial tensile strain. <i>Nanoscale</i> , <b>2019</b> , 11, 12788-12792  | 7.7  | 32 |
| 45 | Excited-State Trions in Monolayer WS <sub>2</sub> . <i>Physical Review Letters</i> , <b>2019</b> , 123, 167401   | 7.4  | 32 |
| 44 | Thickness determination of MoS <sub>2</sub> , MoSe <sub>2</sub> , WS <sub>2</sub> and WSe <sub>2</sub> on transparent stamps used for deterministic transfer of 2D materials. <i>Nano Research</i> , <b>2019</b> , 12, 1691-1695 | 10   | 30 |
| 43 | Ultrafast dynamics in monolayer transition metal dichalcogenides: Interplay of dark excitons, phonons, and intervalley exchange. <i>Physical Review Research</i> , <b>2019</b> , 1,  | 3.9  | 24 |
| 42 | Single photon emission based on coherent state preparation. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 111110  | 3.4  | 23 |
| 41 | Dark trions govern the temperature-dependent optical absorption and emission of doped atomically thin semiconductors. <i>Physical Review B</i> , <b>2020</b> , 101,  | 3.3  | 21 |
| 40 | Spintronic GdFe/Pt THz emitters. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 152401  | 3.4  | 20 |
| 39 | Valley-contrasting optics of interlayer excitons in Mo- and W-based bulk transition metal dichalcogenides. <i>Nanoscale</i> , <b>2018</b> , 10, 15571-15577  | 7.7  | 18 |
| 38 | Exciton-phonon coupling in mono- and bilayer MoTe <sub>2</sub> . <i>2D Materials</i> , <b>2018</b> , 5, 045007   | 5.9  | 17 |

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|----|--|-----|----|
| 37 | Strain transfer across grain boundaries in MoS <sub>2</sub> monolayers grown by chemical vapor deposition. <i>2D Materials</i> , <b>2018</b> , 5, 031003   | 5.9 | 16 |
| 36 | Thermomagnetic control of spintronic THz emission enabled by ferrimagnets. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 012402  | 3.4 | 16 |
| 35 | Selective Raman modes and strong photoluminescence of gallium selenide flakes on sp <sup>2</sup> carbon. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2014</b> , 32, 04E106 | 1.3 | 14 |
| 34 | An intentionally positioned (In,Ga)As quantum dot in a micron sized light emitting diode. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 143101  | 3.4 | 14 |
| 33 | Exciton broadening and band renormalization due to Dexter-like intervalley coupling. <i>2D Materials</i> , <b>2018</b> , 5, 025011   | 5.9 | 12 |
| 32 | Incorporation of oxygen atoms as a mechanism for photoluminescence enhancement of chemically treated MoS <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 16918-16923                         | 3.6 | 12 |
| 31 | Strain-dependent exciton diffusion in transition metal dichalcogenides. <i>2D Materials</i> , <b>2021</b> , 8, 015030  | 5.9 | 11 |
| 30 | Zeeman spectroscopy of excitons and hybridization of electronic states in few-layer WSe <sub>2</sub> , MoSe <sub>2</sub> and MoTe <sub>2</sub> . <i>2D Materials</i> , <b>2019</b> , 6, 015010                             | 5.9 | 11 |
| 29 | Spin valves as magnetically switchable spintronic THz emitters. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 132403   | 3.4 | 10 |
| 28 | Supercontinuum second harmonic generation spectroscopy of atomically thin semiconductors. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 083102   | 1.7 | 8  |
| 27 | Recent developments in single dot coherent devices. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3696-3708  | 1.3 | 8  |
| 26 | Strain tuning of the Stokes shift in atomically thin semiconductors. <i>Nanoscale</i> , <b>2020</b> , 12, 20786-20796  | 7.7 | 8  |
| 25 | Micro-Raman imaging and micro-photoluminescence measurements of strain in ZnMgSe/ZnSe microdiscs. <i>Microelectronics Journal</i> , <b>2009</b> , 40, 221-223  | 1.8 | 7  |
| 24 | Intentionally positioned self-assembled InAs quantum dots in an electroluminescent p-i-n junction diode. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 2749-2752                        | 3   | 7  |
| 23 | Theory of the Coherent Response of Magneto-Excitons and Magneto-Biexcitons in Monolayer Transition Metal Dichalcogenides. <i>Physical Review B</i> , <b>2020</b> , 102,  | 3.3 | 6  |
| 22 | Assembly of large hBN nanocrystal arrays for quantum light emission. <i>2D Materials</i> , <b>2021</b> , 8, 035005   | 5.9 | 6  |
| 21 | Coherent optoelectronics with single quantum dots. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 454210   | 10  | 4  |
| 20 | Single-Photon Emitters: Nanoscale Positioning of Single-Photon Emitters in Atomically Thin WSe <sub>2</sub> (Adv. Mater. 33/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 7032-7032                                 | 24  | 3  |

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|----|--|------|---|
| 19 | Nanoantenna-controlled radiation pattern of the third-harmonic emission. <i>Applied Physics B: Lasers and Optics</i> , <b>2016</b> , 122, 1                                | 1.9  | 3 |
| 18 | Single-photon emitters in layered van der Waals materials. <i>Physica Status Solidi (B): Basic Research</i> ,  | 1.3  | 3 |
| 17 | Photoluminescence Emission and Raman Response of MoS <sub>2</sub> , MoSe <sub>2</sub> , and WSe <sub>2</sub> Nanolayers <b>2013</b> ,                                      |      | 3 |
| 16 | Dispersionless Propagation of Ultrashort Spin-Wave Pulses in Ultrathin Yttrium Iron Garnet Waveguides. <i>Physical Review Applied</i> , <b>2021</b> , 16,                  | 4.3  | 3 |
| 15 | Exciton spectroscopy on single CdSe/ZnSe quantum dot photodiodes. <i>Microelectronics Journal</i> , <b>2009</b> , 40, 215-217  | 1.8  | 2 |
| 14 | Coherent optoelectronics with quantum dots <b>2012</b> , 528-559   |      | 2 |
| 13 | Resonant photocurrent-spectroscopy of individual CdSe quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 2521-2523             | 3    | 2 |
| 12 | High resolution photocurrent-spectroscopy of a single quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 3722-3725      |      | 2 |
| 11 | Resonant photocurrent from a single quantum emitter in tungsten diselenide. <i>2D Materials</i> , <b>2020</b> , 7, 045021  | 5.9  | 2 |
| 10 | Dark exciton anti-funneling in atomically thin semiconductors. <i>Nature Communications</i> , <b>2021</b> , 12, 7221   | 17.4 | 2 |
| 9  | Ultrafast spin dynamics in magnetic wide-bandgap semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 1685-1693                           | 1.3  | 1 |
| 8  | p-Shell Rabi-flopping and single photon emission in an InGaAs/GaAs quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 40, 2004-2006 | 3    | 1 |
| 7  | Quantum interferences of a single quantum dot in the case of detuning. <i>Physical Review B</i> , <b>2006</b> , 74,  | 3.3  | 1 |
| 6  | Composition-dependent ultrafast THz emission of spintronic CoFe/Pt thin films. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 042404                                  | 3.4  | 1 |
| 5  | Anisotropic exciton diffusion in atomically-thin semiconductors. <i>2D Materials</i> , <b>2022</b> , 9, 025008   | 5.9  | 1 |
| 4  | Polarization contrast scattering spectroscopy of individual metal nanoantennas. <i>Applied Physics B: Lasers and Optics</i> , <b>2017</b> , 123, 1                         | 1.9  |   |
| 3  | Electrically driven intentionally positioned single quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 1182-1185        |      |   |
| 2  | Quantum interferences of a single quantum dot in the case of detuning. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 3730-3733  |      |   |

- 1 Ramsey fringes in a single InGaAs/GaAs quantum dot. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 2229-2232

1.3