

# David A Ruiz-Tijerina

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1287258/publications.pdf>

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18  
papers

1,125  
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686830

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docs citations

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times ranked

1920  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Moiré band structures of twisted phosphorene bilayers. Physical Review B, 2022, 105, .  | 1.1  | 3         |
| 2  | Superposition of intra- and inter-layer excitons in twistrionic MoSe <sub>2</sub> /WSe <sub>2</sub> bilayers probed by resonant Raman scattering. 2D Materials, 2021, 8, 035009.  | 2.0  | 25        |
| 3  | Excited Rydberg states in MoSe <sub>2</sub> /WSe <sub>2</sub> heterostructures. 2D Materials, 2021, 8, 035047.  | 2.0  | 5         |
| 4  | Band energy landscapes in twisted homobilayers of transition metal dichalcogenides. Applied Physics Letters, 2021, 118, .   | 1.5  | 21        |
| 5  | Multifaceted moiré superlattice physics in twisted $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{WSe} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:msub} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle 2$ bilayers. Physical Review B, 2021, 104, .  | 1.1  | 14        |
| 6  | Theory of moiré localized excitons in transition metal dichalcogenide heterobilayers. Physical Review B, 2020, 102, .   | 1.1  | 19        |
| 7  | Multiflavor Dirac fermions in Kekulé-distorted graphene bilayers. Physical Review B, 2019, 100, .   | 1.1  | 13        |
| 8  | Resonantly hybridized excitons in moiré superlattices in van der Waals heterostructures. Nature, 2019, 567, 81-86.  | 13.7 | 621       |
| 9  | Interlayer hybridization and moiré superlattice minibands for electrons and excitons in heterobilayers of transition-metal dichalcogenides. Physical Review B, 2019, 99, .  | 1.1  | 116       |
| 10 | Tuning of impurity-bound interlayer complexes in a van der Waals heterobilayer. 2D Materials, 2019, 6, 035032.  | 2.0  | 17        |
| 11 | Localized interlayer complexes in heterobilayer transition metal dichalcogenides. Physical Review B, 2018, 97, .  | 1.1  | 29        |
| 12 | Hybrid $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{k} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \text{Å} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ tight-binding model for subbands and infrared intersubband optics in few-layer films of transition-metal dichalcogenides: $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{MoS} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle 2$ Physical Review B, 2018, 98, . | 1.1  | 34        |
| 13 | Nano-imaging of intersubband transitions in van der Waals quantum wells. Nature Nanotechnology, 2018, 13, 1035-1041.  | 15.6 | 75        |
| 14 | Transport signatures of Kondo physics and quantum criticality in graphene with magnetic impurities. Physical Review B, 2017, 95, .  | 1.1  | 14        |
| 15 | Symmetry-protected coherent transport for diluted vacancies and adatoms in graphene. Physical Review B, 2016, 94, .   | 1.1  | 16        |
| 16 | Interaction effects on a Majorana zero mode leaking into a quantum dot. Physical Review B, 2015, 91, .  | 1.1  | 75        |
| 17 | Capacitive interactions and Kondo effect tuning in double quantum impurity systems. Physical Review B, 2014, 90, .  | 1.1  | 7         |
| 18 | Dynamical magnetic anisotropy and quantum phase transitions in a vibrating spin-1 molecular junction. Physical Review B, 2012, 86, .  | 1.1  | 11        |