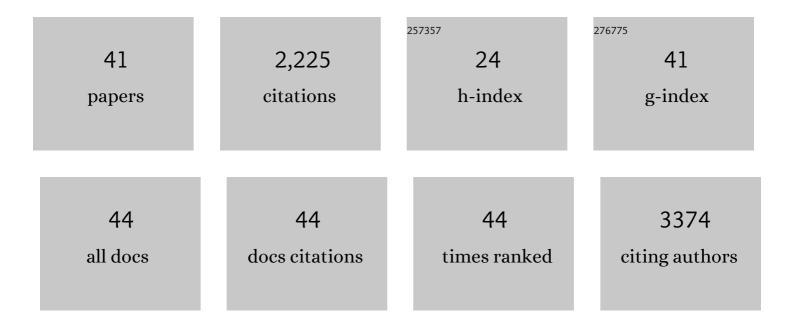
## **Pierre Darancet**

List of Publications by Year in descending order

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DIEDDE DADANCET

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Machine learning the metastable phase diagram of covalently bonded carbon. Nature Communications, 2022, 13, .   | 5.8  | 9         |
| 2  | Synthesis of borophane polymorphs through hydrogenation of borophene. Science, 2021, 371, 1143-1148.  | 6.0  | 129       |
| 3  | Electronic Structure of Metallophthalocyanines, MPc (M = Fe, Co, Ni, Cu, Zn, Mg) and Fluorinated<br>MPc. Journal of Physical Chemistry A, 2021, 125, 4055-4061.                               | 1.1  | 17        |
| 4  | Observation of Single-Electron Transport and Charging on Individual Point Defects in Atomically Thin WSe <sub>2</sub> . Journal of Physical Chemistry C, 2021, 125, 14056-14064.              | 1.5  | 5         |
| 5  | Mechanistic Investigation of Molybdenum Disulfide Defect Photoluminescence Quenching by<br>Adsorbed Metallophthalocyanines. Journal of the American Chemical Society, 2021, 143, 17153-17161. | 6.6  | 12        |
| 6  | Range-separated hybrid functionals for mixed dimensional heterojunctions: Application to phthalocyanines/MoS2. APL Materials, 2021, 9, .  | 2.2  | 9         |
| 7  | Monolayer and Bilayer Perfluoropentacene on Cu(111). Journal of Physical Chemistry C, 2020, 124, 653-658.   | 1.5  | 2         |
| 8  | Microscopic Theory of Plasmons in Substrate-Supported Borophene. Nano Letters, 2020, 20, 2986-2992.   | 4.5  | 11        |
| 9  | Two-Dimensional Molecular Charge Density Waves in Single-Layer-Thick Islands of a Dirac Fermion<br>System. ACS Nano, 2020, 14, 8887-8893.   | 7.3  | 5         |
| 10 | Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional<br>InSe–Organic van der Waals Heterostructures. ACS Nano, 2020, 14, 3509-3518.                        | 7.3  | 17        |
| 11 | Inverse Design of a Graphene-Based Quantum Transducer via Neuroevolution. Journal of Physical Chemistry C, 2020, 124, 26117-26123.  | 1.5  | 8         |
| 12 | Charge Separation in Epitaxial SnS/MoS <sub>2</sub> Vertical Heterojunctions Grown by<br>Low-Temperature Pulsed MOCVD. ACS Applied Materials & Interfaces, 2019, 11, 40543-40550.             | 4.0  | 16        |
| 13 | Large Band Edge Tunability in Colloidal Nanoplatelets. Nano Letters, 2019, 19, 7124-7129.   | 4.5  | 15        |
| 14 | Electronic Coupling in Metallophthalocyanine–Transition Metal Dichalcogenide Mixed-Dimensional<br>Heterojunctions. ACS Nano, 2019, 13, 4183-4190.   | 7.3  | 54        |
| 15 | Anisotropic structural dynamics of monolayer crystals revealed by femtosecond surface X-ray scattering. Nature Photonics, 2019, 13, 425-430.  | 15.6 | 28        |
| 16 | Quantum Paraelastic Two-Dimensional Materials. Physical Review Letters, 2019, 122, 015703.  | 2.9  | 13        |
| 17 | First-Principles Investigation of Borophene as a Monolayer Transparent Conductor. Journal of Physical Chemistry C, 2018, 122, 4037-4045.  | 1.5  | 89        |
| 18 | Cross-plane coherent acoustic phonons in two-dimensional organic-inorganic hybrid perovskites.<br>Nature Communications, 2018, 9, 2019.   | 5.8  | 71        |

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Slow thermal equilibration in methylammonium lead iodide revealed by transient mid-infrared spectroscopy. Nature Communications, 2018, 9, 2792.                               | 5.8 | 25        |
| 20 | Spatially resolved, substrate-induced rectification in C60 bilayers on copper. Journal of Chemical Physics, 2017, 146, .  | 1.2 | 3         |
| 21 | Theory of Thermal Relaxation of Electrons in Semiconductors. Physical Review Letters, 2017, 119, 136602.  | 2.9 | 78        |
| 22 | Surface-Area-Dependent Electron Transfer Between Isoenergetic 2D Quantum Wells and a Molecular<br>Acceptor. Journal of the American Chemical Society, 2016, 138, 11109-11112. | 6.6 | 35        |
| 23 | Mechanism for Si–Si Bond Rupture in Single Molecule Junctions. Journal of the American Chemical<br>Society, 2016, 138, 16159-16164.   | 6.6 | 29        |
| 24 | Large Spatially Resolved Rectification in a Donor–Acceptor Molecular Heterojunction. Nano Letters,<br>2016, 16, 2603-2607.  | 4.5 | 21        |
| 25 | Adsorption-Induced Solvent-Based Electrostatic Gating of Charge Transport through Molecular<br>Junctions. Nano Letters, 2015, 15, 4498-4503.                                  | 4.5 | 34        |
| 26 | Molecular diodes enabled by quantum interference. Faraday Discussions, 2014, 174, 79-89.  | 1.6 | 29        |
| 27 | Tunable Charge Transport in Single-Molecule Junctions via Electrolytic Gating. Nano Letters, 2014, 14, 1400-1404.   | 4.5 | 107       |
| 28 | Three-dimensional metallic and two-dimensional insulating behavior in octahedral tantalum<br>dichalcogenides. Physical Review B, 2014, 90, .                                  | 1.1 | 124       |
| 29 | Determination of Energy Level Alignment and Coupling Strength in 4,4′-Bipyridine Single-Molecule<br>Junctions. Nano Letters, 2014, 14, 794-798.                               | 4.5 | 112       |
| 30 | Physical Adsorption and Charge Transfer of Molecular Br <sub>2</sub> on Graphene. ACS Nano, 2014,<br>8, 2943-2950.  | 7.3 | 58        |
| 31 | Tuning Rectification in Single-Molecular Diodes. Nano Letters, 2013, 13, 6233-6237.   | 4.5 | 169       |
| 32 | Low-Energy Charge-Transfer Excitons in Organic Solids from First-Principles: The Case of Pentacene.<br>Journal of Physical Chemistry Letters, 2013, 4, 2197-2201.             | 2.1 | 166       |
| 33 | Quantitative Current–Voltage Characteristics in Molecular Junctions from First Principles. Nano<br>Letters, 2012, 12, 6250-6254.  | 4.5 | 72        |
| 34 | Quantitative molecular orbital energies within a GOWO approximation. European Physical Journal B, 2012, 85, 1.  | 0.6 | 52        |
| 35 | Simultaneous Determination of Conductance and Thermopower of Single Molecule Junctions. Nano Letters, 2012, 12, 354-358.  | 4.5 | 251       |
| 36 | Inverse Rectification in Donor–Acceptor Molecular Heterojunctions. ACS Nano, 2011, 5, 9256-9263.  | 7.3 | 77        |

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Electronic energy level alignment at metal-molecule interfaces with a <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:math> approach. Physical Review B, 2011, 84, . | 1.1 | 75        |
| 38 | Quantum transport through resistive nanocontacts: Effective one-dimensional theory and conductance formulas for nonballistic leads. Physical Review B, 2010, 81, .  | 1.1 | 13        |
| 39 | Coherent Electronic Transport through Graphene Constrictions: Subwavelength Regime and Optical<br>Analogy. Physical Review Letters, 2009, 102, 136803.  | 2.9 | 74        |
| 40 | Quenching of the Quantum Hall Effect in Multilayered Epitaxial Graphene: The Role of Undoped<br>Planes. Physical Review Letters, 2008, 101, 116806.   | 2.9 | 12        |
| 41 | Ab initioGWelectron-electron interaction effects in quantum transport. Physical Review B, 2007, 75, .   | 1.1 | 97        |