# Abhilash Patra

List of Publications by Year
in descending order

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Version: 2024-02-01

| 20 | 280 | 759190 12 | 940516 16 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 20 | 20 | 20 | 179 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Phase evolution in thermally annealed Ni/Bi multilayers studied by X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 4415-4424. | 2.8 | 4 |
| 2 | Efficient Band Structure Calculation of Two-Dimensional Materials from Semilocal Density Functionals. Journal of Physical Chemistry C, 2021, 125, 11206-11215. | 3.1 | 19 |
| 3 | Bandgap of two-dimensional materials: Thorough assessment of modern exchangeâ€“correlation functionals. Journal of Chemical Physics, 2021, 155, 104103. | 3.0 | 26 |
| 4 | Electronic band structure of layers within meta generalized gradient approximation of density functionals. Physical Review B, 2020, 102, . | 3.2 | 18 |
| 5 | Efficient yet accurate dispersion-corrected semilocal exchangeâ€“correlation functionals for non-covalent interactions. Journal of Chemical Physics, 2020, 153, 084117. | 3.0 | 10 |
| 6 | Improved transition metal surface energies from a generalized gradient approximation developed for quasi two-dimensional systems. Journal of Chemical Physics, 2020, 152, 151101. | 3.0 | 14 |
| 7 | Screened range-separated hybrid by balancing the compact and slowly varying density regimes: Satisfaction of local density linear response. Journal of Chemical Physics, 2020, 152, 044111. | 3.0 | 22 |
| 8 | A way of resolving the order-of-limit problem of Taoâ€“Mo semilocal functional. Journal of Chemical Physics, 2020, 153, 184112. | 3.0 | 15 |
| 9 | Insights from the density functional performance of water and waterâ€“solid interactions: SCAN in relation to other meta-GGAs. Journal of Chemical Physics, 2020, 153, 214116. | 3.0 | 14 |
| 10 | Laplacian free and asymptotic corrected semilocal exchange potential applied to the band gap of solids. Physical Chemistry Chemical Physics, 2019, 21, 19639-19650. | 2.8 | 21 |
| 11 | Performance of Taoâ€“Mo Semilocal Functional with rVV10 Dispersion-Correction: Influence of Different Correlation. Journal of Physical Chemistry A, 2019, 123, 10582-10593. | 2.5 | 14 |
| 12 | Colle-Salvetti type correlation functionals for two-dimensional quantum dot systems. Chemical Physics Letters, 2019, 720, 70-75. | 2.6 | 2 |
| 13 | Long-range screened hybrid-functional theory satisfying the local-density linear response. Physical Review A, 2019, 99, . | 2.5 | 16 |
| 14 | Adiabatic connection in density functional theory in two-dimensions: A semi-analytic wavefunction based study for two-electron atomic systems. Journal of Chemical Physics, 2019, 151, 204104. | 3.0 | 1 |
| 15 | A Parameter-Free Semilocal Exchange Energy Functional for Two-Dimensional Quantum Systems. Journal of Physical Chemistry A, 2018, 122, 3455-3461. | 2.5 | 5 |
| 16 | Gradient approximated exchange energy functionals with improved performances for two-dimensional quantum dot systems. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 268-276. | 2.7 | 9 |
| 17 | Efficient lattice constants and energy bandgaps for condensed systems from a meta-GGA level screened range-separated hybrid functional. Journal of Chemical Physics, 2018, 149, 094105. | 3.0 | 14 |
| 18 | Assessing the performance of the Tao-Mo semilocal density functional in the projector-augmented-wave method. Journal of Chemical Physics, 2018, 149, 044120. | 3.0 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Inhomogeneity induced and appropriately parameterized semilocal exchange and correlation energy functionals in two-dimensions. Journal of Chemical Physics, 2018, 148, 134117. | 3.0 | 5 |
| 20 | Accurate band gaps from exchange potentials designed from cuspless hydrogen density-based exchange hole model. Physical Chemistry Chemical Physics, 0, , . | 2.8 | 1 |