Supporting Information: Doped Graphene Quantum Dots UV-Vis Absorption Spectrum: A high-throughput TDDFT study

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Figure S1. UV-Vis spectrum of 1 nm pristine graphene.

Figure S2. UV-Vis spectrum of 1 nm 1.5% B-doped graphene.
Figure S3. UV-Vis spectrum of 1 nm 3% B-doped graphene.

Figure S4. UV-Vis spectrum of 1 nm 5% B-doped graphene.
Figure S5. UV-Vis spectrum of 1 nm 7% B-doped graphene.

Figure S6. UV-Vis spectrum of 1 nm 1.5% N-doped graphene.
Figure S7. UV-Vis spectrum of 1 nm 3% N-doped graphene.

Figure S8. UV-Vis spectrum of 1 nm 5% N-doped graphene.
Figure S9. UV-Vis spectrum of 1 nm 7% N-doped graphene.

Figure S10. UV-Vis spectrum of 1 nm 1.5% O-doped graphene.
Figure S11. UV-Vis spectrum of 1 nm 3% O-doped graphene.

Figure S12. UV-Vis spectrum of 1 nm 5% O-doped graphene.
Figure S13. UV-Vis spectrum of 1 nm 7% O-doped graphene.

Figure S14. UV-Vis spectrum of 1 nm 1.5% S-doped graphene.
Figure S15. UV-Vis spectrum of 1 nm 3% S-doped graphene.

Figure S16. UV-Vis spectrum of 1 nm 5% S-doped graphene.
Figure S17. UV-Vis spectrum of 1 nm 7% S-doped graphene.

Figure S18. UV-Vis spectrum of 1 nm 1.5% P-doped graphene.
Figure S19. UV-Vis spectrum of 1 nm 3% P-doped graphene.

Figure S20. UV-Vis spectrum of 1 nm 5% P-doped graphene.
Figure S21. UV-Vis spectrum of 1 nm 7% P-doped graphene.

Figure S22. UV-Vis spectrum of 1.5 nm pristine graphene.
Figure S23. UV-Vis spectrum of 1.5 nm 1.5% B-doped graphene.

Figure S24. UV-Vis spectrum of 1.5 nm 3% B-doped graphene.
Figure S25. UV-Vis spectrum of 1.5 nm 5% B-doped graphene.

Figure S26. UV-Vis spectrum of 1.5 nm 7% B-doped graphene.
Figure S27. UV-Vis spectrum of 1.5 nm 1.5% N-doped graphene.

Figure S28. UV-Vis spectrum of 1.5 nm 3% N-doped graphene.
Figure S29. UV-Vis spectrum of 1.5 nm 5% N-doped graphene.

Figure S30. UV-Vis spectrum of 1.5 nm 7% N-doped graphene.

Figure S31. UV-Vis spectrum of 1.5 nm 1.5% O-doped graphene.
Figure S32. UV-Vis spectrum of 1.5 nm 3% O-doped graphene.

Figure S33. UV-Vis spectrum of 1.5 nm 5% O-doped graphene.
Figure S34. UV-Vis spectrum of 1.5 nm 7% O-doped graphene.

Figure S35. UV-Vis spectrum of 1.5 nm 1.5% S-doped graphene.
Figure S36. UV-Vis spectrum of 1.5 nm 3% S-doped graphene.

Figure S37. UV-Vis spectrum of 1.5 nm 5% S-doped graphene.
Figure S38. UV-Vis spectrum of 1.5 nm 7% S-doped graphene.

Figure S39. UV-Vis spectrum of 1.5 nm 1.5% P-doped graphene.
Figure S40. UV-Vis spectrum of 1.5 nm 3% P-doped graphene.

Figure S41. UV-Vis spectrum of 1.5 nm 5% P-doped graphene.
Figure S42. UV-Vis spectrum of 1.5 nm 7% P-doped graphene.

Figure S43. UV-Vis spectrum of 2 nm pristine graphene.
Figure S44. UV-Vis spectrum of 2 nm 1.5% B-doped graphene.

Figure S45. UV-Vis spectrum of 2 nm 3% B-doped graphene.
Figure S46. UV-Vis spectrum of 2 nm 5% B-doped graphene.

Figure S47. UV-Vis spectrum of 2 nm 7% B-doped graphene.
Figure S48. UV-Vis spectrum of 2 nm 1.5% N-doped graphene.

Figure S49. UV-Vis spectrum of 2 nm 3% N-doped graphene.
Figure S50. UV-Vis spectrum of 2 nm 5% N-doped graphene.

Figure S51. UV-Vis spectrum of 2 nm 7% N-doped graphene.
Figure S52. UV-Vis spectrum of 2 nm 1.5% O-doped graphene.

Figure S53. UV-Vis spectrum of 2 nm 3% O-doped graphene.
Figure S54. UV-Vis spectrum of 2 nm 5% O-doped graphene.

Figure S55. UV-Vis spectrum of 2 nm 7% O-doped graphene.
Figure S56. UV-Vis spectrum of 2 nm 1.5% S-doped graphene.

Figure S57. UV-Vis spectrum of 2 nm 3% S-doped graphene.
Figure S58. UV-Vis spectrum of 2 nm 5% S-doped graphene.

Figure S59. UV-Vis spectrum of 2 nm 7% S-doped graphene.
Figure S60. UV-Vis spectrum of 2 nm 1.5% P-doped graphene.

Figure S61. UV-Vis spectrum of 2 nm 3% P-doped graphene.
Figure S62. UV-Vis spectrum of 2 nm 5% P-doped graphene.

Figure S63. UV-Vis spectrum of 2 nm 7% P-doped graphene.