Bjorn Sparrman, Cosima du Pasquier, Charles Thomsen, Shokofeh Darbari, Rami Rustom, Jared Laucks, Kristina Shea, Skylar Tibbits,

**Printed silicone pneumatic actuators for soft robotics,**

Additive Manufacturing,

Volume 40, 2021, 101860, ISSN 2214-8604,

<https://doi.org/10.1016/j.addma.2021.101860>.

(<https://www.sciencedirect.com/science/article/pii/S2214860421000257>)

* A good starting point for soft robotics, focuses on using silicone to create the soft bodies and details different process of making the robots.

Hossein Mirzanejad, Mahdi Agheli,

**Soft force sensor made of magnetic powder blended with silicone rubber,**

Sensors and Actuators A: Physical, Volume 293, 2019, Pages 108-118, ISSN 0924-4247,

https://doi.org/10.1016/j.sna.2019.04.021.

(<https://www.sciencedirect.com/science/article/pii/S0924424718322039>)

* Proposes implementing a hall type sensor in a soft body actuator by mixing magnetic powder into the silicone when casting.
* This could be a good avenue to include a sensor in the actuator without adding a solid component to the claw.

Vollrath, Fritz, and Thiemo Krink. **“Spider webs inspiring soft robotics.”** Journal of the Royal Society, Interface vol. 17,172 (2020): 20200569. doi:10.1098/rsif.2020.0569

* The article provides example of bio mimicry
* Uses spider webs in tandem with specific software to create soft robotics that are adaptable to
* Interesting and something that can be mentioned in a presentation, but nothing I could feasibly apply in project.